# Construction News

## RAILWAYS—STEAM AND ELECTRIC

### Proposed Work

**Pennsylvania**—Pennsylvania R.R. plans to improve and extend yards at Morrisville, about $1,000,000. A. C. Shand, Broad St. Sta., Philadelphia, Ch. Engr.

**Pennsylvania**—Wilkes-Barre & Hazleton Ry. plans to extend line from Hazleton to Tamaqua. C. B. Houke, Hazleton, Gen. Mgr.

**Delaware**—Delaware R.R. plans to improve line from Wilmington to Delmar. A. C. Shand, Broad St. Sta., Philadelphia, Ch. Engr.

**D. C., Washington**—Capitol Traction Co. applied to Pub. Utilities Comn. for permission to extend lines south on 18th St. to C St. to relieve congestion at 15th St. and New York Ave. Company plans terminal loop around triangle between 18th and C St. and Virginia Ave. About $100,000. J. Fleming, 36th and M St., N. W., Washington, Pur. Agt.

**Virginia**—Hopewell & City Point Ry., recently incorporated, plans 2½ mi. line. J. C. Rees, Jr., Petersburg, Pres.

**Virginia**—Norfolk & Western Ry. making surveys for extending New River, Holston & Western Ry from Rocky Gap to North Tazewell, 29 mi. J. E. Crawford, Roanoke, Ch. Engr.

**Virginia**—Western Maryland R.R. and Old Dominion Ry. plan connecting link between 2 lines, about 40 mi. track to be laid. H. R. Pratt, Baltimore, Ch. Engr.

**Georgia**—Savannah Electric Co., Savannah, plans to extend Millhaven line to Port Wentworth, 4 mi. H. C. Foss, Savannah, Gen. Mgr.

**Mississippi**—Arizona Hydraulic Power Co., recently incorporated, plans railway from Clarksdale to Miami and Globe, Ariz., also to develop hydro-electric power from Verde River. E. Meek, Prescott, Ariz., interested.

**Tennessee**—Knoxville Interurban Railway Co., recently incorporated, applied for charter for line from Vestal south of Knoxville to Maryville, about 13 mi. M. T. De Vault and N. B. Morrell, Knoxville, Interested.

**Tennessee**—Tennessee Central R.R. plans extension from Harriman to Chattanooga. R. Smith, Nashville, Supt.

**Tennessee**—Van Buren County, Spencer, election Dec. 2 to vote on $75,000 bonds to subscribe to capital stock of Van Buren County Railroad Co. for line from Onward to Doyle, White County, to junction of Bear Hollow and Dry Fork Gulch, about 13 mi. M. M. Allison, Chattanooga, Interested. Noted Sept. 7.

**Ohio**—J. J. Weatherly, Secy. Chamber Commerce, Troy, interested in plan to build traction line from Troy to Pleasant Hill through Bradford and Greenville.

**Michigan**—Detroit United Ry., Detroit, making surveys for new car line to Royal Oak. F. W. Brooks, Detroit, Gen. Mgr. Noted Aug. 10.

**Illinois**—Chicago, North Shore and Milwaukee Electric Ry. plans to lay 350 tons new rails this fall, also double-track single track sections and replace 100-ft. pile bent trestle by concrete box and fill at Highwood. B. J. Fallon, Chicago, Ch. Engr.

**Illinois**—Chicago & Northwestern Railway Co. plans to spend about $60,000 for improving tracks around Nelson. W. H. Finley, Chicago, Ch. Engr.

**Illinois**—City, Springfield, election Nov. 7 to vote on franchise to Springfield Consolidated Railway Co. to extend line east to Bergen Park. A. D. Mackee, Springfield, Gen. Mgr. and Pur. Agt. Noted Dec. 30.

**South Dakota**—Chicago, Milwaukee & St. Paul Ry. plans filling in east of present tracks at Sioux Falls to extend yard facilities. About $100,000. C. F. Loweth, Railway Exchange Bldg., Chicago, Ch. Engr.

**Montana**—Great Northern Railway Co. plans line from Great Falls to Chester. A. H. Hogeland, St. Paul, Ch. Engr.

**Texas**—Dallas Northwestern Ry. plans line from Dallas to Krum thence to Bowie and Wichita Falls, Texas, about 120 mi. J. T. Witt, Dallas, Ch. Engr.

**Texas**—Eagle Pass & Gulf R.R. securing right-of-way for line through Maverick County, Eagle Pass. A. L. Matlock, 518 Bedell Bldg., Atty.

**Texas**—Rockport Development Co., Rockport, plans line from Rockport to Lamar and Refugio, about 30 mi. E. G. Gibson, Rockport, Secy.

**Oklahoma**—Ardmore Railway Co. making surveys for line from Ardmore to Fox oil fields. I. M. Putnam care of St. Railway Co., Ardmore, Gen. Mgr. Noted Oct. 12.

**Oklahoma**—Missouri, Kansas & Texas Ry. plans to enlarge yard at Tulsa. L. F. Lonnbladh, Dallas, Ch. Engr.

### Bids In and Contracts Awarded

**West Virginia**—Chesapeake & Ohio R.R. let contract line from Mann to Gilbert, 13 mi., to BALLARD, HERRING & SEVERS, INC., Yancy Mills, Va. Noted June 8.

**Tex., Houston**—San Antonio, Gonzales & Houston Interurban Railway Co. let contract first section line from Houston, 60 mi. west, to J. H. BERRYMAN & CO. E. Kennedy, Houston, Vice-Pres.

**Utah**—Deep Creek R.R. recently incorporated with $450,000 capital stock, let contract line from Wendover on Western Pacific to Gold Hill, 43 mi. to UTAH CONSTRUCTION CO.

**Oregon**—Roseburg & Eastern R.R. let contract line from Roseburg to Rock Creek to KENDALL BROS., Pittsburgh, Penn. Noted Oct. 19.

## LIGHT, HEAT AND POWER

### Proposed Work

**Vt., East Middlebury**—Bread Leaf Mountain Power Co. plans hydro-electric plant. About $500,000.

**Mass., Springfield**—William Carter Co. making plans for 1-story boiler-house, 60x60-ft. About $40,000. Henry M. Hope, Boston, Engr.

**N. Y., Allegany**—See item under "Buildings."

**N. Y., Hornell**—Hornell Electric Co. plans electric transmission lines to Arkport and Canaseraga.

**Penn., Enola**—Pennsylvania R.R. made plans for improving and extending power plant.

**Penn., Philadelphia**—Barrett Manufacturing Co. plans to improve and enlarge boiler room. W. B. Murphy, Market and Bermuda St., in charge.

**S. C., McCormick**—M. G. and J. J. Dorn applied to Council for franchise for electric-light plant. About $12,000 or $15,000.

**Ga., Augusta**—R. J. Edenfield and associates applied to Council for franchise for electric-light and power system in Augusta.

**Fla., Plant City**—Plant City Public Service Co. acquired system of Plant City Ice and Power Co. and will enlarge same. R. Nettles, Secy.

**Fla., Titusville**—Southern Utilities Co., Jacksonville, purchased plant of Titusville Electric Light Co. and will spend about $15,000 for improvements.

Ala., Huntsville—Alabama Power Co., Birmingham plans enlarging its plant. J. A. Sirnit, Birmingham, Elec. Engr.

**Ala., Prattville**—The Clark-Pratt Cotton Mills plan to rebuild its hydro-electric dam washed away by floods. Estimated cost, $25,000.

**Ohio, Cincinnati**—City plans 2-story gas plant. A. G. Hall, General Hospital, Avondale, Cincinnati, Ch. Engr.

**Ohio, Cleveland**—Schneider-Becker Dairy Co., 7100 Clarke Ave., making plans for power plant. W. D. McCormick, 9th floor, Century Bldg., Pittsburgh, Arch.

**Mich., Vasser**—City voted $25,000 bonds to improve electric-light plant and water system.

**Ill., Bloomington**—City Officials and proprietors of factory buildings plan central power plant to furnish light and power to manufacturing concerns.

**Ill., Gillespie**—Southern Illinois Light and Power Co. plans power plant at Gillespie. About $25,000.

**Iowa, Spencer**—City plans election to vote on $50,000 bonds for improving and extending electric-light plant and system.

**Iowa, West Chester**—Citizens voted bonds for electric-light plant.

**Minn., Adams**—City plans electric-lighting system.

**Minn., Hibbing**—Village soon receives bids for 1-story power station, about $200,000. Tyrie & Chapman, Auditorium Bldg., Minneapolis, Arch.

**Minn., Hutchinson**—Hutchinson Gas Co., care of Gas and Electric Construction Co., making plans for gas plant. About $30,000. E. E. Collins, 509 N. W. Bank Bldg., Minneapolis, Pres. Western Gas Construction Co., Ft. Wayne, Engr. Noted Sept. 21.

**Kan., Independence**—Western States Portland Cement Co. to rebuild power plant destroyed by fire with loss of $100,000. C. B. McVay, Mgr.

**Kan., McPherson**—Central Academy and College making plans for 1-story heating plant. F. D. Rixse, 212 South Clarence St., Wichita, Arch.

**Kan., Neodesha**—City plans 1-story power house. Black & Veatch, 507 Interstate Bldg., Kansas City, Mo., Engr.

**Kan., Wichita**—(Official)—Kansas Gas and Electric Co. does not plan to improve plant and extend system as stated in Oct. 5 issue.

**Mo., Kansas City**—Kansas City Light and Power Co. making plans for heating plant. About $12,000.

**Mo., Mt. Vernon**—Citizens voted bonds for electric-light plant.

**Okla., Mountain View**—Council plans electric-light plant, about $8,000.

**Calif., Alameda**—Union Iron Works, San Francisco, granted permit for power house at shipbuilding plant at Alameda. About $22,500.

**Ont., Leamington**—Town Council plans improving light and power system. R. M. Selkirk, Clk.

### Bids In and Contracts Awarded

**Mass., Winchendon**—Winchendon Electric Light Co. let contract hydro-electric power plant to WILEY & FOSS, Central City, Fitchburg.

**N. Y., Glens Falls**—(Official)—International Paper Co. let contract hydro-electric power station to H. P. CUMMINGS CONSTRUCTION CO., Ware, Mass.

**Penn., Polk**—State Institute for Feeble Minded let contract boiler house and power plant to C. F. HAMILTON, INC., Franklin, about $33,217.

**Ohio, Akron**—Firestone Rubber and Tire Co. let contract 1-story power building to HUNKIN-CONKEY CONSTRUCTION CO., 321 Cuyahoga Bldg., Cleveland.

**Mich., Grand Rapids**—National Brass Co. let contract power house to F. W. BURGSTAHLER & SON, about $7,000. Noted Sept. 21.

**Mich., Howell**—City let contract power plant to F. SCHAFER, Howell, about $4,000.

**Mich., Kalamazoo**—Borgess Hospital Association let contract 2-story power plant to H. L. VANDER HORST, Burdick and Walnut St.

**Ill., Savanna**—People's Gas and Electric Co. let contract 12-mi. 33,000-volt transmission line to C. A. HOPPIN & CO., Peoria. Noted Apr. 13.

**Wis., Janesville**—Sisters of Mercy Hospital let contract boiler house to FORD BROS. & SCHOOF, 209 East Milwaukee St., about $4,000.

**Minn., Minneapolis**—Minneapolis St. Railway Co. to build 1-story boiler room by day labor. About $5,000. W. J. Smith, 1 South 11th St., Master Mechanic.

**N. D., Wahpeton**—Otter Tail Power Co., Fergus Falls, Minn., let contract power house to T. & L. D. LIBBY CO., 354 Temple Court, Minneapolis.

**Que., Quebec**—Jeffrey Hale Hospital, Lockwell St., let contract power house to WRIGHT & LONERGAN, about $17,000.

## BRIDGES

### Proposed Work

**Mass., Lawrence**—City plans bridge over Boston & Maine R.R. in South Lawrence. A. O. Marble, City Engr.

**Conn., New Haven**—New York, New Haven & Hartford R.R. plans expenditure of $1,000,000 for bridges in Shore Line Divisions. Edward Gagel, Ch. Engr.

**N. Y., Bennington**—City to vote Nov. 7 on $7,500 bonds for bridges.

**N. Y., Buffalo**—Comr. Pub. Wks. receiving bids Oct. 31 for bascule bridge over Buffalo River on Abbott Rd. G. H. Norton, City Engr. Noted Sept. 28.

**N. Y., Watertown**—City retained William Mueser, Park Row Bldg., New York, to make plans for bridge on Court St. About $352,000.

**Penn., Easton**—(Official)—Northahmpton County receiving bids Oct. 30 for rein.-con. bridge over upper branch Buskill Creek, known as Bridge No. 184. G. F. P. Young, Easton, County Controller.

**Penn., South Bethlehem**—Pub. Ser. Comn. plans viaduct between Bethlehem and South Bethlehem. About $1,000,000.

**Md., Baltimore**—See item under "Streets and Roads."

**Va., Petersburg**—City plans viaduct across Appomattox River. R. P. Budd, City Engr.

**W. Va., Bethany**—Raleigh County plans concrete bridge over Buffalo River at Main St. Address County Clk., Wellsburg.

**W. Va., Kingston**—Fayette County receiving bids Nov. 17 for concrete bridge across Willey Fork of Fishing Creek. S. Meyers, New Martinsville, County Clk.

**N. C., Statesville**—Iredell and Catawba Counties plan 2 highway bridges over Catawba River between 2 counties. N. B. Mills, Statesville, Comr. Noted Aug. 10.

**Ala., Montgomery** — (Official) — Montgomery County election Nov. 7 to vote on $50,000 bonds for bridge over Tallapoosa River between Montgomery and Elmore Counties. Address County Clk., Montgomery. Noted Oct. 5.

Bridges (Continued)

**Ala., Seale**—Russell County receiving bids Nov. 15 for rein.-con.bridge over Brush Creek on Tuskegee and Columbus Rd. W. S. Keller, Montgomery, State Highway Engr.

**Tenn., Knoxville**—City receiving bids Dec. 1 for concrete viaduct on Gay St., about 900-ft. long and 60 ft. wide. J. B. McCalla, City Engr. Noted Oct. 19.

**Ohio, Akron**—Summit County plans election to vote on $1,000,000 bonds for North Hill Viaduct. Former election declared illegal. E. W. Paul, Court House, Akron, County Engr. W. Watson, Leader-News Bldg., Cleveland. Consult. Engr. Noted Sept. 21.

**Ohio, Lima**—City plans viaduct at Metcalf St. About $85,000. J. J. Heffner, City Engr.

**Ind., Montgomery**—City Comm. and Louisville & Nashville R.R. plan concrete bridge at Bell St. About $16,000. W. H. Courteney, Louisville, Ch. Engr.

**Wis., Potter**—County receives bids about Jan. 1 for rein.-con. bridge including seven 40-ft. spans. W. M. Conway, Green Bay, Engr.

**Minn., Aitken**—Aitken County Comrs. plans 7 bridges. C. E. Nagel, St. Paul, State Highway Engr.

**Minn., New Ulm**—Brown County receiving bids Nov. 6 for State Bridge No. 2370. L. G. Vogel, New Ulm, Audr.

**Kan., Anthony**—Harper County votes Nov. 7 on $123,000 bonds for concrete bridges and culverts.

**Kan., Ellsworth**—Ellsworth County election Nov. 7 to vote on proposition for bridge over Smoky Hill River. Address County Clk., Ellsworth. Noted May 4.

**Kan., Springhill**—Johnson County receiving bids Nov. 11 for steel bridge. About $8,000. George Pike, Olathe, County Engr.

**Neb., Lewellen**—City soon to vote on bridge across North Platte River.

**Mont., Great Falls**—City made plans for steel and cement bridge over Missouri River at west end 1st Ave. About $200,000. R. C. Schuppert, City Engr.

**Mo., Kansas City**—(Official)—Bd. Park Comrs., 3rd floor, City Hall, receiving bids Nov. 22 for concrete bridge over Blue River on 71st St., Swope Park. T. C. Harrington, Secy. (See adv.)

**Tex., Florence**—Bd. Supervs. plans bridge across Gila River. About $65,000.

**Tex., League City**—Galveston County Comrs. soon lets contract for Clear Creek Bridge. R. M. Sias, Galveston, County Engr.

**Okla., Tecumseh**—Potawatomie County Comrs. receiving bids Nov. 9 for 2 concrete bridges and culvert. Address County Clk., Tecumseh.

**Okla., Tulsa**—(Official)—Tulsa County receiving bids Nov. 6 for approaches to Arkansas River Bridge No. 150. L. Cline, Tulsa, Clk. (See adv.)

**Wash., Lawrence**—City making plans for bridge over Kaw River to carry rails for transportation street, interurban and freight cars. About $211,000.

**Wash., Montesano**—See item under "Streets and Roads."

**Wash., North Yakima**—See item under "Streets and Roads."

**Calif., Riverside**—Bd. Supervs. Riverside County soon lets contract for Ordway steel girder and truss bridge at mouth of Live Oak Canyon. Address County Clk., Riverside.

**Calif., San Jose**—Santa Clara County receiving bids Nov. 6 for rein.-con. bridge on Mountain View and Alviso Rd. H. A. Pfister, San Jose, County Clk.

**Ont., Preston**—See item under "Miscellaneous."

### Bids In and Contracts Awarded

**Penn., Mauch Chunk**—Carbon County let contract bridge over Big Creek to WHITAKER & DIEHL, Harrisburg, about $4,415.

**Penn., Trucksville**—Luzerne County Comrs. let contract concrete arch bridge over Big Creek to WHITTAKER & DICHE, Harrisburg. About $4,415.

**Del., Milford**—Sussex County rejected bids for bridge over Mispillion River. Address County Clk., Georgetown. Noted Sept. 28.

**Va., Lynchburg**—Norfolk & Western Ry. let contract viaduct over James River and railway track to M. M. ELKAN, Macon, Ga., about $350,000. Chesapeake & Ohio and Southern Rys., City of Lynchburg and Amherst County will contribute toward cost.

**N. C., Shelby**—County let contract 3 bridges over Broad River to AUSTIN BROS., Dallas, about $39,800.

**Ga., Calhoun**—Gordon County Comrs. let contract bridge over Cossawattee River near Reel's Ferry to AUSTIN BROS., Atlanta. About $6,240. Noted Oct. 5.

**Ala., Little River**—(Official)—Monroe County let contract 80-ft. rein.-con. bridge over Little River at Little River to VIRGINIA BRIDGE AND IRON CO., about $5,800. Noted Sept. 14.

**Ohio, Cleveland**—City Bd. of Control let contract West 3d St. Bridge to KING BRIDGE CO., East 69th St. and New York Central tracks. About $25,000. Noted Oct. 19.

**Ohio, New Cumberland**—Tuscarawas County let contract bridge over One Leg Creek to A. MacWARDELL. Noted Apr. 27.

**Ind., Elwood**—County let contract bridge over Duck Creek on North Anderson St. to ELKHART BRIDGE CO., Elkhart, $12,708; on Main and North C St. to I. E. SMITH, Richmond, about $13,900 and $5,000 respectively. Noted Aug. 17.

**Ill., Broadwell**—Township Comrs. let contract rein.-con. bridge over Salt Creek to DECATUR BRIDGE CO., Decatur. About $11,600.

**Ill., Cairo**—Alexander County let contract bridge over Taylor Ford to CANTON BRIDGE CO., Canton, about $7,713.

**Ill., Kankakee**—Kankakee and Will Counti s let contract bridge over Kankakee River between 2 counties to M. & P. CONSTRUCTION CO., Rockport, Ind., about $43,213. Noted Sept. 21.

**Ill., South Wilmington**—(Official)—Grundy County let contract steel bridge in Greenfield Township to JOLIET BRIDGE AND IRON CO., Joliet. About $8,900. Noted Oct. 12.

**Iowa, Clinton**—Clinton County let contract 2 bridges in Spring Rock Township to J. R. KANE, Clinton. About $11,461. Noted Sept. 28.

**Iowa, Eldorado**—City let contract rein.-con. bridge to N. M. STARK & CO., Des Moines. About $7,377.

**Iowa, Macedonia**—Pottawattamie County Comrs. rejected bids for bridges over Nishnabotna River west of city. About $12,500. H. M. Howard, Engr. Noted May 4.

**Minn., Princeton**—City received no bids for truss bridge No. 353. Noted Sept. 28.

**Ark., Corning**—City let contract bridge over Black River to VINCENNES BRIDGE CO., Vincennes, Ind., about $19,000.

**Okla., El Reno**—Canadian County let contracts 13 bridges to S. J. WICK, EL. WICHER, E. E. BLAKE, G. M. STONE, El Reno, and OKLAHOMA BRIDGE CO., Oklahoma. About $14,136.

**Ariz., Tucson**—County let contract Oracle Bridge over Rillito River to EL PASO BRIDGE CO., El Paso, about $17,727. Noted Oct. 12.

**Calif., Santa Barbara**—Santa Barbara County rejected bids for bridges over Cat Canyon at Sisquoc and culvert bridge near Guadalupe. Noted Oct. 19.

## WATER-WORKS

### Proposed Work

**Mass., Chicopee**—City plans water mains. About $12,000. D. J. Coakley, Mayor.

**N. J., Newark**—Bd. Street and Water Comrs. receiving bids Nov. 2 for water pipes and special castings for high- and low-pressure systems. G. Sansenbacher, Supt. Noted Sept. 28.

**N. J., Nutley**—City soon lets contract for water main. Noted Sept. 21.

**Penn., Pittsburgh**—City voted $110,000 bonds for improving water system. Charles A. Finley, Supt.

**Penn., Ringtown**—City making plans for waterworks. M. C. Krausse, Williamsport, Engr.

**Penn., Steelton**—City soon receives bids for 100,000,000-gal. reservoir. O. B. Baskins, Supt.

**N. C., Durham**—City receiving bids Oct. 31 for improving pumping station. B. S. Skinner, Mayor.

**Fla., Brooksville**—City soon receives bids for sale of $21,000 water bonds. Noted Sept. 28.

**Miss., Sumrall**—City voted $20,000 bonds for water system. Noted June 22.

**Ohio, East Youngstown**—City receiving bids Oct. 30 for 14-in. Venturi meter. Benjamin C. Miller, Supt.

**Ohio, Lima**—City soon lets contract for 800,000-gal. reservoir.

**Ohio, Lima**—Dir. of Pub. Ser. receiving bids Nov. 15 for improving water system. About $500,000.

**Ohio, Ravenna**—City plans 2,000,000-gal. filter plant. About $50,000.

**Ohio, Winchester**—Village receiving bids soon for concrete reservoir and pump house. G. M. Herbst, Village Clk.

**Ohio, Zanesville**—(Official)—City receiving bids Oct. 30 for water-works. W. W. Roach, Dir. Pub. Ser. Noted Oct. 12.

**Mich., Mendon**—City retained A. H. Smith Co., Consult. Engr., Toledo, Ohio, to make plans for water system.

**Mich., Vasser**—See item under "Light, Heat and Power."

**Ill., Aurora**—(Official)—City receiving bids Nov. 15 for rein.-con. covered reservoir with appurtenances. D. H. Maury, 1137 Monadnock Blk., Chicago, Consult. Engr. (See adv.)

**Ill., Bloomington**—City soon receives bids for water mains in Front St. Edward Jones, Mayor.

**Wis., Chilton**—City making plans for water system.

**Wis., Madison**—City soon receives bids for pumping station. About $35,000.

**Wis., West Allis**—Bd. Pub. Wks. receiving bids Nov. 11 for extending water mains in 50th, 68th and 77th Ave. E. G. Orbett, City Engr.

**Iowa, Burlington**—City plans water system. H. G. Vollmer, City Engr.

**Iowa, Carroll**—Plans being made for pumping station. G. C. Beiter, Supt.

**Iowa, Lake Mills**—City sold $20,000 water-works improvement bonds.

**Iowa, Stuart**—City receiving bids Oct. 30 for $25,000 water bonds.

**Iowa, West Burlington**—City making preliminary plans for water system. Stevens & Stiles, Commerce Bldg, Kansas City, Mo., Engr.

**Minn., Cambridge**—City defeated $15,000 water bonds. Noted Oct. 19.

**Minn., Duluth**—City plans to extend mains in Ramsey, 69th and 99th St. A. Ayers, City Engr.

**Minn., Gaylord**—Village sold $15,000 water bonds. Noted Sept. 28.

**Kan., Altoona**—City soon votes on $22,000 water-works and electric-light bonds. Riley & Hardman, Parsons, Engr.

**Kan., Argonia**—City soon lets contract for water system. About $20,000. W. B. Rollins & Co., 439 Railway Exchange Bldg., Kansas City, Mo., Engr. Noted Oct. 19.

**Kan., La Crosse**—City making plans for water system. W. B. Rollins, Railway Exchange Bldg., Kansas City, Mo., Engr. Noted Oct. 12.

**Kan., Manchester**—City election Nov. 3 to vote on $23,000 water-works bonds.

**Kan., Plains**—City plans election to vote on $6,000 bonds for extending water systems. S. D. Elliot, Mayor.

**Kan., Tonganoxie**—City voted $40,000 bonds for water system. Black & Veatch, Interstate Bldg., Kansas City, Mo., Engr. Noted Sept. 21.

**Kan., Winfield**—City soon receives bids for 1,700,000-gal. reservoir. W. J. Weifert, Supt.

**S. D., Castlewood**—City voted $20,000 bonds for water system. Bids soon to be received.

**N. D., Churchs Ferry**—City plans improving water system. About $25,000.

**N. D., Grand Forks**—City defeated $25,000 bonds for filter plant. J. J. Smith, Supt. Noted Sept. 21.

**Mo., Carrollton**—Water, Light and Transit Co. plans filter plant. H. W. Graham, Supt.

**Mo., Sedalia**—(Official)—City receiving bids Nov. 6 for water system and filter plant. About $50,000. Noted Sept. 28.

**Tex., Higgins**—(Official)—City to vote Nov. 17 on $20,000 water bonds. Noted Oct. 12.

**Okla., Arnett**—City voted $65,000 water-works bonds. Noted Oct. 12.

**Okla., Marlow**—City making plans for water and sewer systems. About $50,000 Benham Engineering Co., Concord Bldg., Oklahoma, Engr. Noted Oct. 19.

**Okla., Talequah**—City plans election to vote on water bonds. John R Hicks, Supt.

**Okla., Wilburton**—City votes Nov. 3 on $55,000 water bonds. McIntosh-Walton Engineering Co., Engr. Noted Oct. 12.

**Idaho, Twin Falls**—City retained Louis C. Kelsey, Selling Bldg., Portland, Ore., to make plans for water system.

**Wash., Puyallup**—City soon lets contract for 3,000-ft. c.-i. water mains.

**Wash., Seattle**—Streets and Sewer Com. voted to install water mains in 10th Ave. About $45,000. L. B. Young, Supt. Water-Wks. Noted Sept. 28.

**Wash., Seattle**—City plans water mains and hydrants in Carleton Park; also addition to main on Magnolia Bluff. About $59,492.

**Calif., Huntington Beach**—City plans water system. About $150,000. H. L. Heffner, Mgr.

**Calif., Santa Monica**—City plans improving water system. About $100,000. W. S. Dole, Supt.

**Que., Chambly Basin**—City plans filter plant. About $30,000.

**Que., Levis**—City plans water system, filter plant and reservoir. About $50,000.

**Ont., London**—Hydroelectric Comn. of London plans improving water system. About $15,000. E. V. Buchanan, Gen. Mgr.

**Ont., Richmond Hill**—City making plans for water-works and mains. James, Loudon & Hertzberg, Ltd., Toronto, Consult. Engr.

**Ont., York**—City receiving bids Oct. 30 for pipe and special castings, etc.; also 12- and 24-in. mains and hydrants. Frank Barber, York, Engr.

### Bids In and Contracts Awarded

**Mass., Fall River**—(Official)—Reservoir Comn. let contract to PHILIPSBURG CONSTRUCTION CO., Yonkers, N. Y., for wash drill borings per lin.ft. at $1.74, core borings per lin.ft. at $5. Noted Sept. 28.

**Mass., South Braintree**—City received low bid water system extension from H. C. Trojano, Brockton.

**N. Y., Watervliet**—Trustees of Fairview and St. Coleman's Home let contract water system to ABLETT & BOWES, Cohoes. About $18,840. Noted Aug. 10.

**S. C., Bamberg**—Comrs. Pub. Wks. let contract improving water system to BLANKENSHIP & McLELLAN, Charlotte. Noted June 29.

**Fla., West Palm Beach**—City let contract 24-in. water main from Lake Worth to Clear Lake to J. B. DAVIDSON CO., West Palm Beach, $8,265.

**Mich., Grand Rapids**—Bd. Pub. Wks. let contract water mains to VANDER WEELE BROS., 902 Benjamin St., Grand Rapids.

Water-Works (Continued)

**Ill., Kewanee**—City let contract reservoir to LEYDEN & ORTSEIFEN, 53 West Jackson Blvd., Chicago. Noted Sept. 21.

**Wis., Monroe**—Bd. Pub. Wks. let contract water-works extension to C. H. PHILLIPS, Waupaca, Wis.

**Wis., Oshkosh**—Bd. Pub. Wks. received low bids water tower from Larsen Construction Co., $14,530; C. R. Meyer & Sons Co., $14,847; Ganther & Kroyer, $15,025. Noted Oct. 5.

**Wis., Sheboygan**—City let contract 12-in. water main in North 18th St. to C. A. HONOLD CO., Sheboygan.

**Iowa, Essex**—City let contract water system to J. J. DUNNEGAN, Shenandoah. Noted Aug. 3.

**Iowa, Kelley**—(Official)—City let contract for water system to DES MOINES BRIDGE AND IRON CO., Des Moines. About $7,360. Noted Aug. 10.

**Mo., Webster Groves**—(Official)—City let contracts water system as follows: UNITED STATES CAST IRON PIPE AND FOUNDRY CO., pipe and fittings, about $9,229; WESTERN VALVE CO., hydrants, valves and boxes, about $1,978. Noted Apr. 6.

**Calif., San Francisco**—San Francisco County received low bid for high-pressure mains from E. M. Whitlock.

**Ont., Weston**—Town Council let contract for water mains to JOHNSTONE BROS., Weston.

## SEWERS

### Proposed Work

**Mass., Boston**—Bd. Pub. Wks. plans sewers in Holmes Ave., Dorchester; Jeffries St., East Boston; Walbridge St., Brighton; and Worley St., West Roxbury. About $9,085.

**Mass., Leominster**—City plans sewage disposal plant. J. J. Van Valkenburg, Framingham, Engr.

**Conn., Hartford**—(Official)—Bd. Contract and Supply receiving bids Oct. 31 for 1,995 ft. 66-in. and 73½-in. sewer in Olds Pl. and South St., 1,100 ft. of which will be in tunnel. Roscoe N. Clark, City Engr.

**Conn., Stamford**—City plans sanitary sewers. Paul Nash, City Engr.

**Conn., Waterbury**—Bd. Pub. Wks. receiving bids Oct. 31 for sewers in portions Meriden and Plank Rd., Eastwood and Highland Ave.

**N. Y., Rome**—Bd. Pub. Wks. rejected bids for sewers in Expense and West Court St. New bids. J. P. Plunkett, City Engr. Noted Oct. 5.

**Penn., Carbondale**—(Official)—City retained Clyde Potts, 30 Church St., New York, to make plans for sewers and sewage-disposal plant. J. A. Saxe, City Engr.

**Penn., Clifton Heights**—Borough plans sewers and disposal plant, about $70,000. J. F. Connor, 1345 Arch St., Philadelphia, Borough Pres. A. F. Damon, Jr., Post Office Bldg., Darby, Engr.

**Fla., Fellsmere**—See item under "Streets and Roads."

**Ky., Louisville**—Bd. Pub. Wks. making plans for sewer in portion Preston St., about $30,000. Roy Burks, City Engr.

**Ohio, Alliance**—City voted $50,000 bonds for improving sewage plant. Charles O. Silver, City Clk.

**Ohio, Bellefontaine**—City receiving bids Nov. 15 for sewers. About $65,000.

**Ohio, Cincinnati**—City soon lets contract for sewer in portion Baymiller St. About $13,890. Frank S. Krug, City Engr. Noted Oct. 19.

**Ohio, Hamilton**—City plans $100,000 bond issue for storm and sanitary sewers. F. E. Weaver, City Engr.

**Ohio, Lorain**—City receiving bids about Dec. 1 for sewer in several streets. C. M. Osborne, City Engr. Noted Oct. 19.

**Ohio, Piqua**—City passed resolutions for sewers in several streets. Albert Schroeder, City Engr.

**Ohio, Sidney**—City making plans for sewer. About $19,700. T. Blake, City Engr. Noted Aug. 3.

**Ohio, Springfield**—Council passed ordinance for storm sewer in portion Franklin St. About $4,708. M. J. Bahin, City Engr.

**Ohio, Toledo**—(Official)—City receiving bids Oct. 31 for 24,000 ft. 8- to 15-in. pipe sewer and 150 manholes. About $45,000. H. C. McClure, Comr. Engr. and Constr. Dept. Pub. Ser.

**Ind., Goshen**—City soon receives bids for sewer in South 8th St. J. W. Haverley, City Engr.

**Ind., Michigan City**—City making plans for sewer in Vlaire St. E. G. Dunn, Jr., Engr.

**Mich., Buchanan**—City plans sewer system.

**Mich., Cadillac**—City plans to build trunk sewer by day labor. About $18,000. T. V. Stephens, Engr. Noted Apr. 27.

**Mich., Dearborn**—City making preliminary plans for sanitary sewers and disposal plant. About $70,000. C. W. Hubbell, 2338 Penobscot Bldg., Detroit, Engr.

**Mich., Grand Rapids**—City to let contract about Feb. 1 for sanitary sewers. About $100,000. W. S. Moore, City Engr.

**Mich., Kalamazoo**—City election Nov. 7 to vote on $225,000 bonds for storm sewers. A. Lenderink, City Engr.

**Ill., Waukegan**—City passed ordinance for sewers in Clayton and Hickory St., Mill Court and Glen Flora Ave., also water main in Mill Court. E. M Douthitt, City Engr.

**Wis., La Crosse**—Finance and Sewer Com. of Common Council adopted resolution for 11-mi. sewer in east end sewer system. About $90,000. George Bradish, City Engr.

**Wis., West Allis**—Bd. Pub. Wks. receiving bids Nov. 11 for sewers in 50th and 77th Ave.

**Wis., West Bend**—City receiving bids Nov. 2 for storm sewer, catch basins, etc. Charles P. Heipp, City Clk.

**Iowa, Carroll**—City making plans for sewer system and pumping station, about 15,000 ft. of 12 in. sewer. J. C. Beiter, City Engr.

**Iowa, Davenport**—City retained John W. Alvord, 8 South Dearborn St., Chicago, Ill., to make plans for extending Marquette and Warren St. sewers. About $60,000. J. W. Crowley, Comr. Pub. Wks. Noted Sept. 28.

**Minn., Brainerd**—City receiving bids Nov. 6 for lateral sewers in Dists. Nos. 1, 4, 5 and 8. Louis Knudson, City Engr.

**Minn., Gaylord**—City receiving bids Nov. 6 (extension of date) for water and sewer extensions. About $40,000. J. F. Druar, St. Paul, Consult. Engr. Noted Oct. 19.

**Minn., Windom**—City defeated $15,000 sewer bonds. Noted Sept. 14.

**Kan., Hutchinson**—City made plans for storm sewer. Bids soon. About $100,000. G. L. McLane, City Engr.

**Kan., Salina**—City plans sewers in North Side. About $40,000. P. G. Wakeenhut, City Engr.

**Kan., Sylvan Grove**—City making preliminary plans for sewer system. About $20,000. W. B. Rollins & Co., 439 Railway Exchange Bldg., Kansas City, Mo., Engr.

**Kan., Wichita**—City plans sanitary sewer No. 20. About $200,000. Bert C. Wells, City Engr.

**Mont., Stevensville**—City plans sewer system. A. Walbridge, City Engr.

**Mo., Joplin**—City plans storm sewer. About $40,000. J. J. McAfee, City Engr.

**Mo., Sedalia**—(Official)—City receiving bids Nov. 6 for sewage plant and improving sewers. F. T. Leaming, City Engr. Noted Sept. 21.

**Mo., St. Louis**—Bd. Pub. Wks. receiving bids Oct. 31 for sewers in South Mill Creek Dist. No. 49. E. R. Kinsey, Pres. Bd.

**Mo., St. Louis**—Bd. Pub. Wks. receiving bids Oct. 31 for sewers in Glaise Creek Sewer Dists. Nos. 12 and 16. E. R. Kinsey, Pres. Bd.

**Tex., Cisco**—City making plans for sewer system. Noted Oct. 12.

**Tex., Frost**—City making plans for sewer system. About $10,000. Noted Aug. 3.

**Tex., Lockhart**—(Official)—Citizens voted $35,000 sewer bonds. H. E. Elrod, Southwestern Life Bldg., Dallas, Engr. Noted Sept. 28.

**Tex., Waxhachie**—City voted $20,000 bonds for sewage plant. Noted Sept. 7.

**Okla., Wetumka**—City making plans for sewer system. Mackintosh-Walton Engineering Co., 1023 State National Bank Bldg., Oklahoma, Engr.

**Colo., Boulder**—City plans sewers in Arapahoe Ave. and Lincoln Pl. G. R. Joslyn, City Engr.

**Idaho, Moscow**—City plans extension of sewer system. About $32,000.

**Wash., Tacoma**—City plans sewers. About $35,000. W. C. Raleigh, City Engr.

**Ore., Portland**—City voted sewers in East 50th and East 16th St. Philip H. Dater, City Engr.

**Calif., San Diego**—City soon to let contract for sewer in University Heights. About $60,000. George Cromwell, City Engr.

**B. C., Victoria**—City plans improving sewer in Cook St. About $10,000.

### Bids In and Contracts Awarded

**Mass., Arlington**—Bd. Pub. Wks. let contract Sec. 14 of sewer system to W. B. BYRNE, 61 Sharon St., West Medford.

**Mass., Peabody**—City let contract intercepting sewer to M. E. KELLEY, 30 Becket St.

**Conn., New Haven**—City let contract storm sewer in Forest St., Westville Dist., to MAHER-SPRAGUE, INC., New Haven. About $14,396.

**N. Y., North Tonawanda**—City let contract sewer in Oliver St. to P. NICKLAS.

**N. J., East Orange**—City let contract storm-water sewer in Halsted Valley, 3rd ward, to J. L. SEGRETTA & CO., 1455 Woodhaven Ave., New York. Noted Sept. 28.

**N. J., New Brunswick**—City let contract trunk sewer to UTILITY CONSTRUCTION CO., New Brunswick. About $10,593.

**Penn., Gallitzin**—City let contract sewers to L. R. CAMPBELL, Gallitzin.

**Penn., Nanticoke**—City let contract sewers in Locust and Arch St. to CARADOE REES, 317 East Noble St.

**Penn., New Castle**—City let contract East Side sewer to J. E. WELLAND CO., Pittsburgh, $19,026. Noted Aug. 31.

**N. C., High Point**—City let contract sewage-disposal plant to A. D. O'BRIEN, Wilmington, N. C., $14,164. Noted Feb. 24.

**N. C., Tarboro**—(Official)—City let contract 5 mi. 8- to 12-in. sewers to J. W. PIERCE, Durham, $10,511. Noted Oct. 5.

**Ind., Anderson**—Bd. Pub. Wks. let contract sewer in West 3rd St. to LEE BURKE. About $4,772.

**Ill., Waukegan**—City let contract sewers in Mott and Lenox Ave. to J. M. DONAHUE, Waukegan, $4,158. Noted Sept. 28.

**Wis., Neenah**—City received bids Oct. 12 for sewers from F. Elcl, Menasha, $7,735; Miner Co., Richland Center, $7,997; Kisput & Hendricks, Kaukauna, $9,966. Noted Sept. 28.

**Wis., Wauwatosa**—City let contract sewers to HERMAN HOHENSEE, 965 27th St., Milwaukee, $18,114.

**Iowa, Panora**—(Official)—City let contract improving sewer system to P. E. WYLIE, about $24,000. Noted June 22.

**Neb., Ogallala**—City let contract 12,000-ft. sewer to C. J. BURKE & SON, Kearney. About $5,000.

**N. D., Enderlin**—City let contract sewer system to V. H. AIKEN, Fargo.

## GARBAGE

### Proposed Work

**N. J., Summit**—City plans incinerator plant, about $25,000. R. C. Wheeler, City Engr.

**N. J., Trenton**—City making plans for 4 furnace addition to garbage disposal plant. J. R. Fell, Jr., Dir. Sts. and Pub. Impvt.

**Penn., Wilkes-Barre**—(Official)—City receiving bids Dec. 1 for collection and disposal of garbage and dead animals for and during a period of 5, 7 or 10 years. F. H. Gates, City Clk. (See adv.)

**Ohio, Cincinnati**—Creation of Waste Comm. to investigate problem of providing improved system of disposal of rubbish and garbage has been urged upon Council Com. on Health. A. Landis, Health Comr., pronounced present method as antiquated and deficient.

**Ohio, Westerville**—Jennings, Lawrence & Lindsay, Engr., Columbus, will submit report to Village Council recommending plan for disposal of garbage.

**Ill., Chicago**—City election Nov. 7 to vote on $2,000,000 bonds for disposal of garbage and ashes and plants. J. Ericson, City Engr.

**Tex., Crockett**—City plans garbage incinerator.

### Bids In and Contracts Awarded

**Ill., Highland Park**—(Official)—City let contract garbage incinerator to O. A. ELLIOTT & CO., Springfield, about $6,000. Noted Oct. 12.

## STREETS AND ROADS

### Proposed Work

**N. Y., Albany**—Common Council plans paving Bradford, Rawson, Kehoe and Benjamin St. F. R. Lanagan, City Engr.

**N. Y., Albany**—(Official)—State Highway Comm., 55 Lancaster St., receiving bids Nov. 21 for highways in various counties. E. Duffey, Comr. (See adv.)

**N. Y., Norwich**—Chenango County Bd. Super. plans 5¼-mi. road from Cherry Valley Junction to Cobleskill and Seward; also road from Slaonsville to Montgomery County line. Address County Clk., Norwich.

**N. J., Annandale**—Bd. Freeholders, Hunterdon County, plans improving 2-mi. Annandale-Allerton Rd. Address County Clk., Flemington.

**N. J., Cape May, C. H.**—Bd. Freeholders, Cape May County, sold $17,000 bridge and $92,000 road bonds. Address County Clk., Cape May, C. H.

**N. J., Newton**—Bd. Freeholders, Sussex County, plans macadamizing Newton-Sparta Rd., about $25,000, and improving 1¼ mi. on Newton-Stanhope Rd. Address County Clk., Newton.

**N. J., Summit**—(Official)—Council will not improve Summit Ave. until next season. R. C. Wheeler, City Engr. Noted Sept. 14.

**N. J., Trenton**—State election in November to vote on $7,000,000 highway bonds. Noted Mar. 30.

**N. J., Woodbridge**—Bd. Freeholders, Middlesex County, plans improving portion Colonia Ave. Rd. Address County Clk., New Brunswick.

**Penn., Apollo**—Council passed ordinance to pave portion Grove St. J. M. Hankey, Pres.

**Penn., Erie**—(Official)—City receiving bids Nov. 3 for grading Parade St. under tracks of New York Central and Pennsylvania R.R., about 16,800 cu.yd. earth excavation and 3,000 cu.yd. rock excavation. F. G. Lynch, City Engr.

**Penn., Mt. Penn**—(Official)—Borough election Nov. 7 to vote on $15,000 street-improvement bonds. G. C. Hartline, Secy. Noted Oct. 12.

**Penn., Pittsburgh**—City plans improving various streets, about $120,000, including Spencer, about $65,000, and Estella Ave., about $25,000. E. J. Martin, City Clk.

**Penn., Susquesne**—Borough Council receiving bids Nov. 6 for grading, curbing and paving Sherman Ave. and Poplar Alley. W. E. Steffy, Chn.

Streets and Roads (Continued)

**Penn., West Chester**—Chester County plans road in New Garden Township from Toughkenmon to Delaware. Address County Clk., West Chester.

**Md., Baltimore**—(Official)—State Rds. Comn., 601 Garrett Bldg., receiving bids Nov. 4 for paving 1 section Pennsylvania Ave., 0.29 mi. asphalt, Contract No. BC-26; 1 section Hilton St., 0.66 mi., asphalt, Contract No. BC-27; 1 section Bayard St., 0.95 mi., asphalt, Contract No. BC-28; 1 rein.-con. bridge over Little Elk River along State Rd. at Western town limits of Elkton, one 80-ft. and two 60-ft. arches, Cecil County, Contract No. CE-23; 1 rein.-con. bridge over Zekiah Swamp along State Rd. between Waldorf and Bryantown, two 32-ft. spans of girder type, Charles County, Contract No. 0153-Br.; repairing bridge over Conocheague along State Rd., Washington County, Contract No. 0215-Br. F. H. Zouck, Chn. (See adv.)

**W. Va., Grafton**—Taylor County election Nov. 7 to vote on $100,000 bonds for roads from Grafton to Knottsville and Fetterman Dist., about 19 mi. Address County Clk., Grafton.

**W. Va., Lewisburg**—Greenbrier County, Ft. Springs Dist., voted $103,000 road bonds. J. S. Crawford, Lewisburg, Clk. Noted Sept. 21.

**W. Va., Lewisburg**—Greenbrier County election Nov. 7 to vote on $121,000 bonds for improving 12 mi. James River and Kanawha Pike, Meadow Bluff Township. Address Clk., Lewisburg.

**N. C., Morganton**—Bruce County voted $20,000 bonds for roads in Quaker Meadow Township. Address County Clk., Morganton. Noted Sept. 21.

**N. C., Oxford**—City voted $180,000 street-improvement bonds.

**N. C., Rockingham**—Richmond County to sell $50,000 road bonds. Address County Clk., Rockingham.

**N. C., Trenton**—(Official)—Jones County receiving bids Nov. 6 for purchase of $25,000 road bonds. Address County Clk., Trenton. Noted Sept. 28.

**Ga., Atlanta**—Fulton County Comrs. plan paving portion Peachtree Ave. About $31,000. Address County Clk., Atlanta.

**Fla., Bradentown**—Manatee County Comrs. soon to let contract for road work in Englewood Special Rd. and Bridge Dist. Address County Clk., Bradentown. Noted Sept. 28.

**Fla., Bushnell**—Sumter County retained W. M. Francisco, Zephyrhills, to make preliminary survey for 115 mi. road in Comrs.'s Dists. Nos. 3, 4 and 5. Address County Clk., Sumterville.

**Fla., DeLand**—Volusia County soon receives bids for 7 mi. asphalt paving DeLand-Daytona Rd. Address County Clk., DeLand.

**Fla., Fellsmere**—City plans 6 mi. paving, including sewers and storm drainage system. About $10,000. Isham Randolph & Co., 208 South La Salle St., Chicago, Engr.

**Ala., Centerville**—Bibb County receiving bids Nov. 18 for improving portion Centerville and Randolph Rd., gravel. About $9,500. Address County Clk., Centerville.

**Ala., Talladega**—Talladega County election Nov. 20 to vote on $300,000 road bonds. Address County Clk., Talladega.

**Miss., Charleston**—Tallahatchie County election Nov. 6 to vote on $25,000 road bonds, Rd. Dist. No. 2. D. S. Henderson, Charleston, Clk. Superv.

**Miss., Ellisville**—Jones County election Nov. 3 to vote on $200,000 road bonds. Address County Clk., Ellinsville. Noted Sept. 28.

**Miss., Grenada**—Grenada County receiving bids Nov. 6 for about 85 mi. sand-clay roads. Address County Clk., Grenada.

**Miss., Iuka**—Tishomingo County receiving bids Nov. 4 for about 6 mi. gravel roads. E. F. Parnell, Iuka, Secy.

**Miss., Liberty**—Supervs. Amite County plan $20,000 road bonds Dist. No. 1, $10,000 Dist. No. 2, $20,000 Dist. No. 3, and $50,000 Dist. No. 4. Address County Clk., Liberty.

**Miss., Monticello**—Lawrence County plans bond issue for road work in Dist. No. 1. Address County Clk., Monticello.

**Miss., Oxford**—Lafayette County voted bonds for road work in Taylor Dist.

**La., Lake Charles**—(Official)—City receiving bids Nov. 9 for about 14,000 sq.yd. gravel paving and 6,200 lin.ft. concrete curb and gutter on Boulevard St. E. L. Gorham, City Engr. Noted Oct. 12.

**Tenn., Chattanooga**—Hamilton County voted $50,000 bonds for 5-mi. road in Suck Creek Sect. of Dixie Highway. Address County Clk., Chattanooga.

**Tenn., Clarksville**—Montgomery County voted $50,000 road bonds. Address County Clk., Clarksville.

**Tenn., Hohenwald**—Lewis County election Dec. 2 to vote on $100,000 road bonds. Address County Clk., Hohenwald.

**Tenn., Huntingdon**—Carroll County election Dec. 12 to vote on $200,000 road bonds. Address County Clk., Huntingdon.

**Tenn., Memphis**—City Comrs. plans paving 8,000 sq.yd. granite block on Calhoun Ave. About $9,271.

**Ky., Whiteburg**—City lets contract paving about Nov. 11.

**Ohio, Bradford**—Village receiving bids Nov. 10 for purchase of $600,000 bonds for improving School St.

**Ohio, Canton**—(Official)—City election in November to vote on $82,000 street improvement bonds. W. E. Sarver, City Engr. Noted Oct. 12.

**Ohio, Cleveland**—Cuyahoga County Comrs. receiving bids Nov. 1 for $45,018 bonds for improving West Lake Rd. W. A. Stinchcomb, County Surv. Noted July 20.

**Ohio, Columbus**—State Highway Comn. receiving bids Nov. 2 for 21 mi. highway in Clinton, Fairfield, Franklin, Guernsey, Harrison, Putnam and Seneca Counties. About $212,547. C. Cowen, State Highway Comr.

**Ohio, Hamilton**—Butler County Comrs. plan improving 15-mi. road in 1917. Fred M. Hammerle, Hamilton, County Engr.

**Ohio, Jefferson**—Council passed ordinance to improve portion Dorset Rd., brick.

**Ohio, Kent**—City plans to pave Lake St.

**Ohio, Niles**—City receiving bids Oct. 30 for sale of $18,000 street-improvement bonds. Homer Thomas, City Audr.

**Ohio, North Lewisburg**—Village Council plans improving various streets. About $10,000.

**Ohio, Piqua**—Council passed resolution to improve 1st St. A. Schroeder, City Engr.

**Ohio, Westerville**—(Official)—R. S. Blinn, City Mgr., 7½ North State St., receiving bids Nov. 4 for improving portion West Broadway and Knox St.

**Ohio, Woodsfield**—(Official)—Village received no bids for curbing, paving and sewering Home Ave. New bids. G. P. Dorr, Woodsfield, Clk. Noted Sept. 28.

**Ind., Ft. Wayne**—Allen County receiving bids Nov. 21 for concrete road Adams Township. W. Johnson, Ft. Wayne, Audr.

**Ind., South Bend**—City receiving bids Oct. 31 for resurfacing Laporte Ave., about $6,100. F. J. Anderson, City Engr. Noted Oct. 19.

**Mich., Grand Rapids**—City plans to improve Curtis St. W. S. Moore, City Engr.

**Ill., Canton**—Lewiston County receives bids about January for 1 mi. concrete and 2 mi. brick road. About $35,000. E. F. Motsinger, Canton, County Supt. Highways.

**Ill., Chicago**—South Park Comrs. plan improving South Shore Blvd.

**Ill., Mt. Carroll**—City Council plans improving portions of Clay, Market and Rapp St. Charles S. Hepner, Freeport, Engr.

**Ill., Princeton**—Bd. Supervs. plans improving roads in Greenville, Neponset, Hall, Princeton and Ohio Townships. About $80,000.

**Ill., Woodstock**—City plans to pave Madison, Jefferson, West Jackson and Lincoln Ave. and Judd St.

**Wis., Milwaukee**—Milwaukee County Comrs. plan improving portion Beloit Rd. Address County Clk., Milwaukee.

**Wis., West Allis**—City Council plans paving 68th Ave. E. G. Orbert, City Engr.

**Iowa, Algona**—City plans to improve about 35 streets and alleys, including grading, curbing and guttering. T. S. DeLay, Creston, Consult. Engr.

**Iowa, Shenandoah**—City plans to pave number streets.

**Minn., Benson**—Swift County plans to spend about $30,000 for road work in 1917. D. P. Carney, Benson, Audr.

**Minn., Morris**—Stevens County plans to spend about $20,000 for road work in 1917. C. R. Wolthan, Morris, Audr.

**Minn., Pine City**—Pine County to spend about $160,000 to improve St. Paul-Duluth Rd. Address County Clk., Pine City.

**Minn., Rochester**—City plans paving 2-mi. Central St., creosote blocks. J. C. Utton, City Engr.

**Kan., Augusta**—(Official)—City receiving bids Nov. 6 for paving State St. and 5th Ave., about 25,000 yd. brick paving including curbing and guttering. P. Wiley, City Clk. Black & Veatch, Interstate Bldg., Kansas City, Mo., Engr. Noted Oct. 12.

**Neb., Fairbury**—City voted $50,000 paving bonds. E. A. Wunder, City Clk. Noted Sept. 28.

**Neb., Falls City**—City plans to pave portion Stone St., Paving Dist. No. 17. F. Smith, City Clk.

**Neb., Hastings**—City soon lets contracts for 3 to 4 mi. asphalt paving. W. H. Fuller, City Engr.

**Neb., Kearney**—Council plans to pave portion Ave. A.

**Mont., Great Falls**—Bd. Comrs. Cascade County plan 10 mi. highway between Monarch and north end joint county government park-to-park road above Neihart. About $80,000. Address County Clk., Great Falls.

**Mo., Fayette**—Council receives bids in January for paving portion Cupples Ave. A. Kirby, City Engr.

**Mo., Hollister**—Hollister-Ridgedale Special Rd. Dist. soon receives bids for about 10 mi. road work. W. H. Johnson, Hollister, Secy.

**Mo., Independence**—City plans improving 4 mi. streets. H. H. Pendleton, City Engr.

**Mo., Stanberry**—City lets contract for brick paving in January. Black & Veatch, Kansas City, Consult. Engr.

**Ark., Camden**—Ouachita County plans sand and clay road from Camden to Nevada County line, about $25,000. Address County Clk., Camden.

**Ark., Jonesboro**—Craighead County plans 11 mi. road from Jonesboro to Otwell, 12 mi. gravel and remainder asphalt macadam. About $60,000. Address County Clk., Jonesboro. Noted Apr. 20.

**Ark., Walnut Ridge**—Lawrence County plans 5½ mi. macadam road north from Walnut Ridge. About $25,000. Address County Clk., Walnut Ridge.

**Tex., Angleton**—Brazoria County voted $150,000 road bonds for Dist. No. 3. Address County Clk., Angleton. Noted Aug. 31.

**Tex., Austin**—City plans $64,000 bond issue for paving. M. C. Welborn, City Engr.

**Tex., Cleburne**—City plans to grade and pave various streets.

**Tex., Dallas**—City Council plans paving portions Word and McCoy St., bitulithic and vibrolithic.

**Tex., Dodd City**—Citizens defeated $45,000 road bonds.

**Tex., Fairfield**—Freestone County voted $20,000 road bonds for Dist. No. 4. G. W. Tryer, Fairfield, County Judge.

**Tex., Houston**—Harris County receiving bids Oct. 30 for repaving Katy and Washington Rd. H. L. Washburn, Houston, Audr.

**Tex., Rusk**—(Official)—Cherokee County defeated $300,000 road bonds. E. D. Spink, Rusk, County Clk. Noted Oct. 12.

**Okla., Depew**—Depew Township plans expenditure of $16,000 for road improvements.

**Tex., Savoy**—Citizens voted $40,000 road bonds.

**Okla., Miami**—Peoria Township, Ottawa County, voted $19,000 road bonds. Address County Clk., Miami.

**Okla., Pawnee**—Pawnee County receiving bids Nov. 6 for rock road around Twin Hills. A. Daniels, Pawnee, County Clk.

**Okla., Sapulpa**—City receiving bids Nov. 1 for paving portions Lincoln and Mission St., asphalt.

**Okla., Tahlequah**—(Official)—Cherokee County election Nov. 7 to vote on $100,000 road bonds. J. R. Miller, Talequah, Clk. Noted Oct. 12.

**Okla., Wilburton**—Latimer County voted $35,000 road bonds, Red Oak Township. Address County Clk., Wilburton. Noted Oct. 5.

**Wash., Everett**—Council passed ordinance to pave Wall, Nassau and 25th St. Hans Mun, Jr., City Engr.

**Wash., Montesano**—Grays Harbor County Comrs. plan expenditure of $262,755 for road and bridge improvements. George D. Robertson, Montesano, County Engr.

**Wash., Mt. Vernon**—City plans paving portion 4th Ave. About $11,000.

**Wash., North Yakima**—Yakima County plans road and bridge work. About $177,250. O. E. Brashears, Yakima, County Engr.

**Wash., Vancouver**—Clarke County Comrs. plan expenditure of $150,000 for road and bridge work. W. A. Schwarz, Vancouver, County Engr.

**Ore., Astoria**—Clatsop County Comrs. plan improving 60-mi. road. About $700,000. G. F. Parker, Astoria, County Engr.

**Ore., Coquille**—Coos County soon lets contract for road work. About $602,000. C. S. McCulloch, Coquille, County Engr.

**Ore., Cornelius**—City plans improving Pine and 4th St. George A. Wilcox, City Recdr.

**Calif., Bakersfield**—Kern County receiving bids Nov. 9 for 12.3 mi. paving on Bakersfield-Mojave Highway. F. E. Smith, Bakersfield, Clk.

**Calif., Berkeley**—City rejected only bid for paving, curbing and sewering Euclid Ave. New bids. J. J. Jessup, City Engr. Noted Sept. 7.

**Calif., Eureka**—Surveys made for about 16 mi. paved boulevard from Fernbridge to Ferndale and from Grizzly Bluff to Centerville. About $180,000. J. A. Shaw, Engr.

**Calif., Los Angeles**—(Official)—City receives bids about Nov. 10 for paving portion Lincoln Ave. About $5,700. H. Hamlin, City Engr. Noted Nov. 5.

**Calif., Sacramento**—Sacramento County voted $1,750,000 road bonds. Address County Clk., Sacramento. Noted Sept. 21.

**Calif., Sacramento**—City Comrs. plan to pave McIntyre Ave. F. C. Miller, City Engr.

**Calif., San Rafael**—Bd. Supervs. Marin County plan to improve Bolinas-San Rafael Highway. About $10,000.

**Ont., Windsor**—City plans to pave Howard Ave., concrete, about $20,000.

### Bids In and Contracts Awarded

**Maine, Bangor**—State Highway Comn., Augusta, let contract highway Hammond St. to SMALL & INGALLS, and MURTAGH HUGHES, about $9,498.

**Mass., Ayer**—(Official)—Massachusetts Highway Comn. let contract section highway in Ayer to R. F. HUDSON, Melrose, about $27,103.

**Mass., Boston**—City let contract paving portion Commonwealth Ave. to WARREN BROS. CO., 142 Berkeley St., about $16,985.

Streets and Roads (Continued)

**N. Y., New York**—(Manhattan)—(Official)—Low bidder paving portions Seaman Ave. and 218th St. was UVALDE ASPHALT PAVING CO., 1 Broadway, about $9,219 and $4,677 respectively. Noted Oct. 12.

**Mass., Cambridge**—(Official)—City, to pave Cambridge St. by day labor. About $63,000. L. M. Hastings, City Engr. Noted Oct. 12.

**N. Y., New York**—(Manhattan)—(Official)—Borough rejected bids improving 3rd Ave. Noted Oct. 12.

**N. Y., New York**—(Manhattan)—(Official)—Borough rejected bids improving Central Park Transverse Rd. No. 2. Noted Oct. 5.

**N. Y., New York**—(Richmond)—(Official)—J. Johnsons' Sons, 455 Broadway, West New Brighton, at $7,234, low bidder improving portion Ridgewood Pl. Noted Oct. 12.

**N. J., Hammonton**—M. Staub, Mamaroneck, at $32,791, low bidder paving portion Bellevue Ave. Noted Oct. 5.

**N. J., Montclair**—(Official)—Essex County let contract improving portion Valley Rd. to STANDARD BITULITHIC CO., 31 Clinton St., Newark, about $19,000. Noted Oct. 12.

**N. J., Newark**—City let contracts paving to STANDARD BITULITHIC CO., Essex Bldg., Newark, Custer Ave., $8,110; Porter Pl., $4,345; Salem St., $6,473. Noted Oct. 5.

**N. J., South Amboy**—Bd. Freeholders, Middlesex County, New Brunswick, received bids for paving Washington Ave. and Main St., warrenite, from Liddle & Pfeiffer, 137 N. Bruns Ave., Perth Amboy, at $57,499; George Gundrum, 103 Henry St., South Amboy, at $57,567; T. H. Riddle, 102 Church St., New Brunswick, at $57,750. Noted Sept. 14.

**N. J., West New York**—(Official)—Town let contract improving portion 9th St. with "Hastings" asphalt blocks to. HASTINGS PAVEMENT CO., 25 Broad St., New York, about $66,204. Noted July 27.

**Penn., Erie**—Bd. Education let contract grading side of Academy High School to W. M. SUTHERLAND CO., 4th and Washington Ave., St. Louis, about $6,500.

**Penn., Washington**—Washington County let contract improving portion Ragersville and Sugarcreek Rd. to A. GARBER.

**W. Va., Huntington**—City let contract paving portion 28th St. to HARRISON & DEAN, $1.30 per sq.yd.

**Ala., Gadsden**—Etowah County Rd. Comn. let contract Colvin Gap Rd. across Colvin Mountain from Hokes Bluff to Calhoun County line to C. G. KERSHAW.

**Miss., Houston**—Chickasaw County let contract about 8 mi. gravel road to W. A. MOORE, Thorn, $41,000. Noted Sept. 28.

**La., Alexandria**—City let contract paving portions White St. and Park Ave. to C. E. RANSBOTTOM, $7,270 and $6,017, respectively; Monroe St., A. J. GAILEY, $6,287.

**La., Amite**—Tangipahoa Parish, 1st Ward, voted $100,000 road bonds. Address Police Jury, Amite.

**Ky., Franklin**—City let contract 35,000 sq.yd. resurfacing to R. PRICE, Auburn.

**Ky., Henderson**—Henderson County let contract rebuilding Morganfield-Smith Mills Rd. to E. MANION, Henderson, about $21,000.

**Ky., Hopkinsville**—City let contract macadam paving to MONTGOMERY, PERKINS & CO., about $28,339.

**Ohio, Akron**—(Official)—Summit County let contract paving Manchester Rd. to J. M. DAVIDSON, 80 East Exchange St., about $7,762. Noted Oct. 5.

**Ohio, Dayton**—City let contracts paving to C. HOOLIHAN, Neal Ave., $5,731, Arbor Ave., $20,888, Florence Ave., $18,101, Old Orchard Ave., $4,050.

**Ohio, Hamilton**—(Official)—City let contract improving portion 9th St. to ANDREWS ASPHALT PAVING CO., Rentschler Bldg., about $15,360. Noted Oct. 5.

**Ohio, Hamilton**—(Official)—City let contracts paving to ANDREWS PAVING CO., Rentschler Bldg., Progress Ave., $4,625, Eaton Rd., $6,788; FEDERAL ASPHALT PAVING CO., Rentschler Bldg., Franklin St., $9,140, C St., $18,785; A. WIRTZ TRANSFER CO., Maple Ave., Park Ave., $7,465. Noted Oct. 5.

**Ohio, Marion**—(Official)—City let contract resurfacing Bellefontaine Ave. to H. P. STREICHER & CO., Toledo, $1.30 per sq.yd. Noted Oct. 12.

**Ohio, Norwalk**—County let contract paving Barberton-Greenwich Rd. to HILL & HILL, Elyria, about $12,822.

**Ohio, Ottawa**—(Official)—Putnam County rejected bids for improving Fred Louse Rd., Jennings Township, and J. A. Unverferth Rd., Union Township. J. E. Roose, Audr. Noted Oct. 12.

**Ohio, Springfield**—Bd. Local Impvts. let contract paving and curbing portion West Monroe St. and Lincoln Ave. to J. O. PATTERSON CO.

**Ohio, West Park**—(Official)—City let contract grading Settlement, Wiltshire and Belmont St. to N. HORTON, West Park; sidewalks to CLEVELAND STONE CO. and LANDRETH BROS. Noted Oct. 5.

**Ind., Crown Point**—County let contract gravel road St. John Township to A. L. COURTRIGHT, Crown Point, about $16,000.

**Ind., Huntington**—Huntington County let contract 2 roads Union Township to W. S. GORDAN & SON, Bluffton, about $20,388. Noted Sept. 28.

**Ind., Liberty**—(Official)—Union and Franklin Counties let contract county line road to T. J. CONNELL, Cambridge City, about $11,659. Noted Sept. 28.

**Ind., Martinsville**—Morgan County let contract gravel roads Monroe Township to C. H. MARLEY, Moorsville, about $4,576. Noted Sept. 28.

**Ind., Rockville**—City let contract paving south side Public Sq. to E. PATTON & SON, Veedersburg, about $7,793.

**Ill., Roseville**—Bd. Local Impvts. received only bid for paving Gilbert, Maple and Benton St. from F. B. Coughlin Co., Chicago. About $26,127.

**Ill., Springfield**—(Official)—State Highway Dept. let contract road improvements as follows: Cook County, Sect. "O," CHICAGO HEIGHTS COAL CO., Chicago, $29,637; Macoupin County, Sect. "F," VAN DUSEN & BAUMBERGER, Greenville, $14,742; Menard County Sect. "C," E. E. BRASS, Petersburg, $5,266; Fayette County, Sect. "B," STANLEY, DEES & CO., Oblong, $13,553; Stark County, Sects. "D" and "E," CAMERON, JOYCE & CO., Keokuk, Iowa, $18,014.

**Kan., Kansas City**—Bd. Pub. Wks. let contract paving portion Pacific St. to KRAMER CONSTRUCTION CO., $2.37 per yd.; Roswell Ave., D. M. BODDINGTON, $1.12 per yd.

**Kan., Wichita**—(Official)—City let contract asphalt paving to CLEVELAND-TRINIDAD PAVING CO., Kansas City, Mo., $1.76 per sq.yd. Noted Sept. 14.

**Mont., Miles City**—City Council let contract paving Main St. to HANLON & OAKES CO., Miles City. About $66,792. Noted Sept. 28.

**Mo., Kansas City**—City let contract paving portion 18th St. to A. JAICKS CO., 510 American Bank Bldg., $63,412. Noted Oct. 12.

**Mo., Kansas City**—Bd. Pub. Wks. let contracts improving various streets as follows: Indiana Ave., E. F. CLARKSON, 3931 St. John Ave., $5,870; Westwood Rd., E. D. TYNER CONSTRUCTION CO., 1201 Spruce St., $1.33 per yd.; 55th St., C. G. BROSNAHAN, 5122 Grand Ave., $6,680; Troost Ave., F. P. McCORMACK, 2309 Penn St., $11,757.

**Mo., St. Louis**—(Official)—City let contract improving portion Locust St. to TRINIDAD ASPHALT MANUFACTURING CO., $68,133. Noted Sept. 28.

**Mo., Sikeston**—(Official)—City let contract improving Stoddard St. to MURRAY & WILLIAMS, Sikeston, about $5,046.

**Ark., Eldorado**—City let contract paving 40 blocks in Impvt. Dist. No. 4 to McEACHIN CONSTRUCTION CO., McAlister.

**Tex., Gilmer**—Upshur County let contract 12 mi. road to O. C. McELREATH.

**Okla., Tulsa**—County let contract about 6 mi. paving on Tulsa-Sapulpa Highway to J. T. LANGTRY, about $6,933 per mi.

**Idaho, Lewiston**—City let contract improving streets in Dist. No. 13 to C. M. PAYNE, 724 East Mission St., Spokane.

**Wash., Pomeroy**—County rejected bids for Permanent Highway No. 3.

**Wash., Seattle**—King County Comrs. let contract Kirkland-Bothell Rd. to L. H. GOERIG, 3611 East Terrace St., about $8,750. Noted Sept. 7.

**Calif., Chino**—California-Arizona Construction Co., at $53,715, low bidder improving various streets. P. E. Kressly, City Clk. Noted Sept. 7.

**Calif., Fowler**—City let contract about 6,000 lin.ft. paving to CORNFIELD & DAVIS, Bakersfield, $7,750. Noted Oct. 5.

**Calif., Los Angeles**—(Official)—Ford & Stout, at $5,163, low bidder paving portion 18th St. Noted Oct. 5.

**Calif., Los Angeles**—(Official)—City let contract paving Boyle Ave. to LOS ANGELES PAVING CO., 2900 East Santa Fe Ave., about $29,438. Noted Oct. 19.

**Calif., Oroville**—Butte County let contract improving Oroville-Palermo Highway to HEWITT & FELCH, Palermo, $5,800.

**Calif., Pasadena**—City Comrs. received low bid for 115,000-sq.ft. macadam pavement on Glenarm St. from S-C Construction Co., 543 Title Insurance Bldg., Los Angeles. About $11,385.

**Calif., Sacramento**—(Official)—State Highway Comn., 595 Forum Bldg., let contract highway in Sonoma County, Div. 4, Route 1, Sect. C, to W. C. PRICE & CO., 209 Clay St., San Francisco, about $12,224. Noted Sept. 28.

**Calif., San Bernardino**—City let contract for improving B St. to HIGHWAY CONSTRUCTION CO., Redlands, about $26,455. Noted June 22.

**Calif., San Leandro**—Johnson-Shea Co., Central Bank Bldg., Oakland, at $26,326, low bidder paving East 14th St.

**Calif., Santa Ana**—County received low bid road work from BRASHEAR BURNS CO., Van Nuys Bldg., Los Angeles, about $16,728.

**Calif., Santa Cruz**—City let contract improving various streets to CITY STREET IMPROVEMENT CO., 166 Geary St., San Francisco, about $39,264.

**Calif., Stockton**—(Official)—San Joaquin County let contract improving Brookside Tract Highway to C. MORENIG, Commercial and Savings Bank Bldg., about $8,862. Noted Sept. 28.

**Ont., Toronto**—City let contract improving Moore Ave. to WARREN BITUMINOUS PAVING CO. OF ONTARIO, LTD., McKinnon Bldg., $19,728. Noted Oct. 12.

**Ont., Toronto**—City transferred contract for paving Spruce Hill Rd. from R. C. Harris, Wks. Comr., to ASPHALTIC CONCRETE CO., LTD., Excelsior Life Bldg., $7,231. Noted July 20.

## INDUSTRIAL WORKS

### Proposed Work

**Maine, Bangor**—C. S. Jones, 49 Pickering Sq., making plans for 2-story bakery. About $10,000. V. Hodgins, 39 Hammond St., Arch.

**Mass., Cambridge**—Davis Ice Cream Co., 155 Massachusetts Ave., making plans for 3-story manufacturing and store building. Prescott & Sidebottom, 12 Pearl St., Boston, Arch.

**R. I., Providence**—Grocers' Baking Co. making plans for 2-story bakery, about $40,000. C. D. Cooley Co., Century Bldg., Pittsburgh, Arch.

**N. Y., Albany**—A. L. De Baum, 41 Liberty St., New York, made plans 2-story, brick and rein.-con. public garage, Albany Ave. and Carroll St. About $20,000. Voickening & Holler, 82 Wall St., Arch.

**N. Y., New York**—(Brooklyn)—V. Baranto, 58 North 5th St., made plans, 2-story, 25x100-ft. storage building. About $50,000.

**N. Y., New York**—(Brooklyn)—Kingsboro Development Co., 215 Havemeyer St., made plans for 2-story, 180x2,220-ft. brick warehouse, south side Johnson Ave. About $40,000. Koch & Wagner, 26 Court St., Arch.

**N. Y., New York**—(Manhattan)—(Official)—S. J. Stammers, Arch., 320 5th Ave., receiving bids for 1-story, 76x152-ft. factory at 62nd St. and 1st Ave., for Beekman Estate, 7 East 42nd St. About $33,000.

**N. Y., New York**—(Manhattan)—Lehmaier Schwartz & Co., 207 East 22nd St., making plans 6-story brick and steel factory, north side East 22nd St. east 3rd Ave. About $60,000. W. Higginson, 13 Park Row, Arch.

**N. Y., New York**—(Manhattan)—Loft Candy Co., Broome and Center St., making plans for addition. Foster & Gage, 15 West 38th St., Arch.

**N. Y., New York**—(Manhattan)—Dept. Water Supply, Gas and Electricity, Municipal Bldg., making plans for 3-story, brick and concrete, repair shop, tool house and garage, 427 East 87th St. W. Williams, Municipal Bldg., Comr. Noted July 20.

**N. Y., New York**—(Manhattan)—(Official)—J. C. Ruhl, Arch., 3207 Hull Ave., Bronx, receiving bids for 6-story, 37.6x100.5-ft. brick garage for Walter Piano Co., 226 East 65th St. About $70,000.

**N. Y., North Tonawanda**—Herschell-Spillman Co. making plans for 4-story, 60x165-ft. factory. About $50,000. E. O. Spillman, 162 Sweeney St., Pres.

**N. Y., Rochester**—Rochester Tallow Co., c-o A. Shade, Rochester, making plans for addition to cooler building. About $15,000. G. Schwutz, 346 Ellicott Sq., Buffalo, Arch. and Engr.

**N. J., Belleville**—Kent Motor Corporation made plans for 1-story, 512x575-ft. plant. Marvin & Davis, 303 Fifth Ave., New York, Arch. About $1,000,000.

**Penn., Beaver Falls**—Beaver Refrigerator and Manufacturing Co., New Brighton, plans to rebuild plant at Beaver Falls destroyed by fire. About $75,000 or $150,000.

**Penn., Erie**—Palace Hardware Co., 913 State St., plans warehouse. About $60,000.

**Penn., Millvale**—Independent Brewing Co., of Pittsburgh, soon receives bids for addition to plant at Millvale. About $250,000. J. H. Friday, First National Bank Bldg., Pittsburgh, Gen. Mgr. Bollinger Bros., Fulton Bldg., Pittsburgh, Engr.

**Penn., Norristown**—Badenhauser Boiler Co., 1429 Chestnut St., plans 1½-story, 180x250-ft. factory.

**Penn., Pittsburgh**—Consolidated Ice Co. receives bids about Dec. 1 for addition to storage house, about $15,000. T. A. Dunn, 13th and Pike St., Gen. Mgr. E. H. Stotz, Monongahela Bank Bldg., Arch.

**Penn., Pittsburgh**—Kaufman Bros., 24 West Grant Ave., making plans 8- or 10-story warehouse. About $500,000. Hunting, Davis & Co., Century Bldg., Arch. Noted Sept. 28.

**Md., Baltimore**—Dixie Manufacturing Co., Russell and Stockholm St., plans 2-story addition, Russell and Ostend St.

**Md., Baltimore**—Jones & McComas Box Co. plans plant at 1816-24 Lancaster St. W. P. McComas, Secy.-Treas.

**Md., Cumberland**—Western Maryland Ry. plans to spend about $300,000 for shops and other improvements. H. R. Pratt, Baltimore, Ch. Engr.

Industrial Works (Continued)

**Va., Pocahontas**—Pocahontas Consolidated Collieries plans machine shop, about $20,000.

**W. Va., Barboursville**—Southern Powder Co. incorporated to build dynamite and powder factory, about $100,000.

**N. C., Pomona**—Southern Ry. plans roundhouse, about $200,000. B. Herman, 1300 Pennsylvania Ave., Washington, D. C., Ch. Engr. M. W. and Struct.

**Ga., Rome**—Southern Box Manufacturing Co. to rebuild factory destroyed by fire with $12,000 loss.

**Ala., Fairfield**—Barrett Co. plans to rebuild plant destroyed by fire with loss of $1,000,000.

**Ohio, Bellaire**—Kochfine Ice Co. plans to spend about $25,000 for improving and enlarging plant.

**Ohio, Cincinnati**—Cincinnati Grinder Co. plans 1-story factory. About $50,000. A. C. Hoefling, 1305 Bates Ave., Pres. and Treas.

**Ohio, Cincinnati**—Jones Heel Manufacturing Co. increased capital stock from $75,000 to $150,000 and plans new plant.

**Ohio, Cleveland**—Columbia Axle Co. made preliminary plans for 1- and 2-story, 300x500-ft. factory. About $250,000. W. S. Ferguson Co., 1900 Euclid Bldg., Arch. and Engr.

**Ohio, Cleveland**—Landemans & Hirschheimer plans 4- or 5-story factory, about $300,000. B. Lowenstein, 1327 West 9th St., Pres.

**Ohio, Cleveland**—Mechanics' Laundry Co. making plans for 2-story, 54x130-ft. factory. About $15,000. Richard & Yost, Rockefeller Bldg., Arch. and Engr.

**Ohio, Cleveland**—National Acme Manufacturing Co., 7500 Stanton Ave., making plans for factory. About $300,000. G. S. Rider, 512 Century Bldg., Arch. Noted Aug. 31.

**Ohio, Cleveland**—Raymond Realty Co., 318 Leader-News Bldg., plans factory, about $85,000 and second unit, about $70,000, along Belt Line R.R., near East 71st St.

**Ohio, Cleveland**—Schneider-Becker Dairy Co., 7100 Clarke Ave., making plans for 6-story dairy plant. About $200,000. W. D. McCormick, 9th floor, Century Bldg., Pittsburgh, Arch.

**Ohio, Coshocton**—Coshocton Glass Co. making plans for addition to plant. About $150,000. H. L. Dickson Co., Pittsburgh, Arch and Engr. Noted Sept. 28.

**Ohio, Middletown**—American Rolling Mills Co. plans 2-story factory and office building. About $125,000. Weber, Werner & Adkins, 1206 Mercantile Library Bldg., Cincinnati, Arch.

**Ind., Gary**—American Car and Foundry Co. plans plant north of Grand Calumet River.

**Mich., Detroit**—Fisher Body Co. plans 5-story, 160x266-ft. addition to factory. A. Mendelson, Paquette Ave. and St. Antpine St., Secy. L. Kamper, 703 Fine Arts Bldg., Arch.

**Mich., Flint**—Flint Spring Water Ice Co., 2025 South Saginaw St., made plans for 1-story ice plant. About $40,000. A. C. Bishop, Citizens Bldg., Cleveland, Arch. Noted Oct. 5.

**Ill., Chicago**—Englewood Cold Storage Co. made plans 8-story cold-storage warehouse, about $125,000. H. Friedl, 154 West Randolph St., Arch., receives bids about Nov. 5.

**Ill., Chicago**—Modern Laundry Co. making plans for 2-story laundry and power plant. Davidson & Weiss, Patterson and Davidson, 53 West Jackson Blvd., Engr.

**Wis., Milwaukee**—Milwaukee Chair Co., 3022 Center St., making plans for addition to factory. About $10,000. J. E. Dirk, 1064 24th St., Arch.

**Wis., Milwaukee**—Nunn & Bush Show Co., 1102 5th St., plans 4-story addition, about $40,000. H. J. Esser, 401 Camp Bldg., Arch.

**Wis., Milwaukee**—Phoenix Printing Co., 1616 Chicago St., making plans for 1-story building, about $15,000. Lennhouts & Guthrie, 424 Jefferson Bldg., Arch.

**Wis., Sturgeon Bay**—Coöperative Orchard Co. plans machine and blacksmith shop and 2-story, 40x120-ft. warehouse. J. Martin, Mgr.

**Iowa, Blencoe**—Farmers' Elevator Co. plans corn crib with dump and elevator. About $12,000.

**Minn., Red Wing**—Dixon Casket Co., Dixon, Ill., plans factory at Red Wing, about $30,000.

**Mont., Great Falls**—Chicago, Milwaukee & St. Paul Railway Co. plans 100x100-ft. brick warehouse, 203 2nd Ave., S. About $25,000. C. F. Loweth, Railway Exchange Bldg., Chicago, Ch. Engr.

**Mont., Great Falls**—Palace Meat Co. plans packing plant, about $20,000.

**Mo., St. Louis**—J. E. Nevin, St. Louis, plans to organize company with $100,000 capital, to build chemical plant.

**Ark., Little Rock**—Central Supply Co., 120 Scott St., made plans for 4-story warehouse. About $40,000. Mann & Stern, Little Rock, Arch. Noted Sept. 7.

**Ark., Pine Bluff**—St. Louis Southwestern Ry. plans 24-stall roundhouse at Pine Bluff. C. D. Purdon, Railway Exchange Bldg., St. Louis, Ch. Engr.

**Tex., Beaumont**—I. E. Scott, c/o Chamber of Commerce, plans to organize company with $100,000 capital stock to build shipbuilding plant.

**Tex., Bryan**—Bryan Ice Co. plans addition. About $25,000.

**Tex., Houston**—City making plans for warehouse. About $350,000. E. E. Sands, City Engr.

**Tex., Texas City**—Texas City Transportation Co. plans warehouse and oil docks. About $50,000.

**Colo., Denver**—Norton-Buick Auto Co. plans factory at 7th and Lincoln St. S. E. Norton, Mgr.

**Colo., Rocky Ford**—Rocky Ford Canning Co. plans to rebuild plant destroyed by fire.

**Utah, Salt Lake City**—Galigher Machinery Co., 165 Pierpont St., made plans for rein.-con. warehouse and machine shops, 5th St., W. Villadsen Bros., Inc., Dooly Bldg., Arch. Noted Sept. 28.

**Ore., Portland**—Dpernbecher Manufacturing Co., East 28th St. and Union Pacific tracks, plans 2-story addition to chair factory. About $50,000.

**Calif., Los Angeles**—Joannes Bros., 819 East 1st St., making plans for 6-story, rein.-con. and brick loft and factory building. Hewitt and Traction St. J. Parkinson, 420 Title Insurance Bldg., Arch.

**Que., Montreal**—F. W. Horner, Ltd., 142 St. Urbain St., making plans for factory. Ross & McDonald, 1 Belmont St., Arch.

**Ont., Belleville**—Maple Leaf Tire Co., Ltd., plans rein.-con. factory, about $100,000. H. C. Long, 695 Traders Bank Bldg., Toronto, Supt. Constr.

**Ont., Galt**—Dodge Metal Hose Co. of Canada, Ltd., plans plant at Galt. About $50,000. J. R. Cameron, Toronto, Wks. Mgr.

**Ont., Toronto**—T. E. Essery granted permit for warehouse at 1301 Queen St. About $18,000.

**Man., Winnipeg**—Carnefac Stock Food Co. plans 2-story concrete elevator block. About $25,000. J. S. Metcalf, Arch.

## Bids In and Contracts Awarded

**Maine, Orono**—International Paper Co. let contract 2-story storehouse to H. P. CUMMINGS CONSTRUCTION CO., Ware, Mass.

**Mass., Chelsea**—Mexican Petroleum Corporation, 120 Broadway, New York, let contract oil distributing plant to H. P. CONVERSE CO., 88 Broad St., Boston, about $300,000.

**Mass., Holyoke**—J. J. Craven, 60 Summer St., let contract 1-story storage building to H. MARTINEAU, 1021 Dwight St., about $10,000.

**R. I., Pawtucket**—Eureka Dyeing Co., Kenworthy, Collins and Japonica St., let contract addition to CRUISE & SMILEY CONSTRUCTION CO., 12 East Ave., about $10,000.

**Conn., Elmwood**—New Departure Manufacturing Co., Bristol, let contract factory to LEVERING & GARRIGUES CO., 36 Pearl St.

**Conn., New Britain**—Beaton & Caldwell Manufacturing Co. let contract superstructure 6-story factory on Main St. to L. A. MILLER, Meriden. Noted Mar. 30.

**Conn., New Haven**—Baumann Rubber Co. let contract 3-story factory to C. W. MURDOCK.

**Conn., Waterbury**—Chase Rolling Mill Co. let contract 2-story storehouse to TORRINGTON BUILDING CO.

**N. Y., Andover**—Clay Cutlery Co. let contract 1-story, 50x100-ft. factory to D. HAWKINS, about $10,000.

**N. Y., Cohoes**—F. Gilbert Paper Co., Saratoga St., let contract manufacturing plant to C. P. BOLAND CO., Troy, about $100,000.

**N. Y., Dunkirk**—Dunkirk Glass Co. let contract 2-story addition to W. WASHINGTON, about $15,000.

**N. Y., North Tonawanda**—R. Wurlitzer Manufacturing Co., Sawyers Creek Rd., let contract addition to TURNER CONSTRUCTION CO., Prudential Bldg., Buffalo, $15,000.

**N. Y., Rochester**—New York State Rys., 367 State St., let contract car shop and heating plant to A. FRIEDERICHS & SONS CO., 710 Lake Ave., about $35,650.

**N. Y., Rome**—Rome Hollow Wire and Tube Co. let contract 1-story addition to W. G. JONES, Front St., about $25,000.

**N. J., Elizabeth**—L. F. Hersh & Bro., 207 Broad St., let contract 4-story warehouse to E. M. WALDRON & CO., 84 South 6th St., Newark, about $40,000.

**N. J., Paterson**—Victory Silk Finishing and Dyeing Co., 182 Madison St., let contract dye factory in Bleecker St. to D. HENRY BUILDING CO., 6 Smith St., Paterson. About $20,000.

**Penn., Pittsburgh**—Iron City Brewing Co., 34th St., let contract addition to bottling plant to H. A. BLOEDEL, 610 Armandale Ave., N. S., about $35,000.

**Md., Baltimore**—Canton Co., Commerce and Water St., let contract factory to be leased by Coco Nut Products Co., 280 Broadway, New York, to WEST CONSTRUCTION CO., Knickerbocker Bldg., about $100,000.

**Md., Ellicott City**—G. A. Gambrill Manufacturing Co. let contract flour mill to CONSOLIDATED ENGINEERING CO., 243 Calvert Bldg., Baltimore, about $100,000. Noted Aug. 31.

**Md., Highlandtown**—Continental Can Co. let contract 3-story factory to COWAN BUILDING CO., 106 West Madison St.

**Va., Norfolk**—Chesapeake & Ohio Ry. let contract warehouse foot Tazewell St. to HARWOOD & MOSS, Newport News, about $50,000.

**Va., Petersburg**—J. B. Worth & Co., Inc., let contract ice plant to J. P. WRIGHT, Petersburg, about $10,000. Noted Oct. 5.

**W. Va., Princeton**—Majestic Steam Laundry let contract brick building to McCONNELL BROS.

**W. Va., Wheeling**—Hazel Atlas Glass Co., 19th and Jacobs St., let contract 2-story plant to R. R. KITCHEN CO., National Bank Bldg., about $52,000.

**Ky., Louisville**—Louisville Provision Co. let contract 6-story, rein.-con. addition to ALT BUILDING CO., Louisville. About $40,000. Noted Oct. 19.

**Ohio, Niles**—Niles Glass Co. let contract addition to H. L. DIXON CO., Pittsburgh, Penn. About $50,000.

**Ill., Chicago**—Transo Envelope Co. let contract factory and boiler room to O. W. ROSENTHAL & CO., 80 East Jackson Blvd., about $35,000.

**Ill., Quincy**—American Strawboard Co. let contract additions to BUERLSEN & KAEMPIN, 500 South 6th St., about $40,000. Noted Aug. 17.

**Ill., Rockford**—B. Z. B. Knitting Co. let contract 4-story factory to G. HOLM, 1604 4th Ave. about $50,000.

**Ill., Rockford**—Rockford Paper Box Board Co. let contract addition to G. HOLM, 1604 4th Ave., about $150,000. Noted Oct. 19.

**Ill., Rock Island**—Rock Island Brewing Co. let contract 2-story bottling plant to H. W. HORST, Horst Bldg., about $70,000.

**Wis., Ashland**—Armour & Co., Union Stock Yards, Chicago, let contract packing plant to TOMLINSON & EGAN, Ashland, about $30,000.

**Wis., Brandon**—J. Hubler let contract hemp plant to J. E. JOHNSON, about $10,000.

**Minn., Howard Lake**—Farmer's Dairy Association let contract creamery to H. SWANSON, Dassel, about $12,000.

**Minn., St. Paul**—Equity Coöperative Exchange Co., 209 Pioneer Bldg., let contract grain elevator to GRANT, SMITH & CO., 1516 Pioneer Bldg., about $140,000.

**Mont., Poplar**—Farmers' Equity Co. let contract elevator to THOMPSON CO., Lewistown, about $40,000.

**Calif., Los Angeles**—Lyon Fireproof Storage Co., let contract 7-story, 80x80-ft. rein.-con. storage building at 1950 South Vermont Ave., to RICHARDS-NEUSTADT CONSTRUCTION CO., Wright & Callender Bldg., Los Angeles.

**Calif., Oakland**—Judson Manufacturing Co., 819 Folsom St., to build factory by day labor. About $100,000.

**Ont., Guelph**—Dominion Linens, Ltd., let contract addition to plant to R. ROGERS, Douglas St., about $10,000. Noted July 13.

**Ont., London**—Middlesex Mills, 1115 Dundas St., let contract dry kiln to SANDERS & ROBINSON, Oxford St.

**Ont., Toronto**—Canadian National Carbon Co., 99 Paton Rd., let contract 3 factory buildings to J. V. GRAY CONSTRUCTION CO., LTD., Confederation Life Bldg., about $25,000.

**Ont., Toronto**—Northrop & Lyman Co., Ltd., 86 Richmond St., W., let contract 4-story brick factory and warehouse to S. L. YOLLES, 67 Baldwin St. About $75,000. Noted Sept. 21.

## FEDERAL GOVERNMENT WORK

### Proposed Work

**R. I., Melville**—Torpedo Storehouse—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Nov. 13, at Naval Coal Station.

**R. I., Newport**—Sea Wall—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Nov. 4, Naval Torpedo Station. Noted Oct. 12.

**N. Y., New York**—Dredging—Bureau Yards and Docks, Navy Dept., Washington, D. C., making plans for dredging in connection with Navy Yard.

**N. Y., New York**—Paving—Bureau Yards and Docks, Navy Dept., making plans for wood-block paving at Navy Yard, New York. Noted June 8.

**N. J., East Orange**—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Nov. 27. Noted Apr. 27.

**Va., Monroe**—Water System—Quartermaster, Ft. Monroe, receiving bids Oct. 27, Ft. Monroe.

**La., New Orleans**—Levee Work—U. S. Engr. Office, Queen and Crescent Bldg., receiving bids Nov. 3 for about 498,000 cu.yd. earthwork Lafourche Levee Dist.

**S. D., Rosebud**—Buildings—Dept. of Interior, Office Indian Affairs, Washington, D. C., receiving bids Nov. 15, Rosebud School. Cato Sells, Comr.

**Tex., El Paso**—Levee Work—U. S. Rec. Ser., Mills Bldg., receiving bids Nov. 24 for about 185,000 cu.yd. canal work and 29,000 cu.yd. levee work. M. Bien, Act. Dir. (See adv.)

**Tex., San Luis**—Coast Guard Station—Treasury Dept., U. S. Coast Guard, Washington, receiving bids Nov. 28 for coast guard station and accessories, San Luis, Galveston Island. (See adv.)

**Idaho, Twin Falls**—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Dec. 6.

**Calif., San Diego**—Crane—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Nov. 20, Naval Coal Depot. Noted Oct. 12.

Federal Government Work (Continued)

**Calif., Tiburon**—Dredging—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Nov. 13. Noted Oct. 12.

**Panama**—Miscellaneous—Maj. E. I. Brown, Gen. Pur. Officer, Panama Canal, Washington, D. C., receiving bids Nov. 10.

### Bids In and Contracts Awarded

**Maine, Skowhegan**—Post Office—Superv. Arch., Treasury Dept., let contract to W. H. FISSELL & CO., New York, $57,650. Noted Oct. 12.

**N. H., Berlin**—Post Office—Superv. Arch., Treasury Dept., rejected bids. Noted Oct. 12.

**Mass., Boston**—Extending Shipbuilding Ways—Bureau Yards and Docks, Navy Dept., received low bids, Navy Yard, Boston, from Crandall Engineering Co., East Boston, $6,730; G. T. Rendle Co., Boston, $5,696; Rendle-Stoddard Co., Boston, $6,883. Noted Sept. 28.

**Conn., New London**—Dredging—Bids received Oct. 13 dredging (a) New Haven Harbor, (b) Norwalk Harbor, (c) Stamford Harbor, from Maritime Dredging Co., 50 East 42nd St., New York, (a) 18.5c., (b) 17c., (c) 22c.; Boston Dredging Co., 40 Central St., Boston, (a) 17.9c. Noted Oct. 5.

**N. J., Bayonne**—Post Office—Superv. Arch., Treasury Dept., Washington, D. C., received bids (a) limestone, (b) sandstone, from E. T. Abbott Construction Co., New York, (a) $95,890, (b) $98,600; Frymier & Hanna Co., New York, (a) $106,794, (b) $112,000; W. H. Fissell & Co., New York, (a) $131,700, (b) $142,500. Noted Sept. 21.

**Penn., Du Bois**—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., Received bids (a) limestone, (b) sandstone, from W. H. Fissell & Co., Lafayette, Ind., (a) $94,900, (b) $100,000; R. S. Moore, Lafayette, Ind., (a) $90,647, (b) $93,769; T. W. Cissell & Co., Wooster, Ohio, (a) $91,000; (b) $93,900. Noted Sept. 14.

**D. C., Washington**—Streets—Dist. Comrs. let contract grading and improving streets, roads and avenues in district to W. F. BRENIZER CO., Washington. Noted Sept. 28.

**Va., Norfolk**—Dry Dock—Bureau Yards and Docks, Navy Dept., received bids from George Leary Construction Co., 17 State St., New York, $2,442,594; H. P. Converse Co., Boston, $2,845,889; Maryland Dredging and Contracting Co., Baltimore, $3,223,062; Arthur McMullen and Olaf Hoff, New York, $3,279,354. Noted Sept. 21.

**W. Va., Buckhannon**—Post Office—Superv. Arch., Treasury Dept., received low bids (a) limestone, (b) sandstone, from V. E. Taylor, Huntington, W. Va., (a) $38,800; Olin Gerlach, Frostburg, Md., (a) $41,295, (b) $42,500; R. S. Moore, Lafayette, Ind., (a) $41,700, (b) $42,700. Noted Sept. 7.

**S. C., Charleston**—Dredging—Bureau Yards and Docks, Navy Dept., let contract, $50,000 cu.yd., Copper River, to L. T. GAYLORD, New York, 12.97c. cu.yd. Noted Oct. 12.

**Mich., Detroit**—Mail Handling Devices—Bids received Oct. 16 from Lamson Co., 100 Boylston St., Boston, $22,753; Alvey-Ferguson Co., Cincinnati, $23,700; S. Olsen & Co., Chicago, $23,900. Noted Aug. 31.

**N. D., Dickinson**—Post Office—Superv. Arch., Treasury Dept., received bids (a) limestone, (b) sandstone, from Charles Weitz Sons, Des Moines, (a) $71,280, (b) $74,000; W. D. Lovell, Minneapolis, (a) $74,322, (b) $78,770; Olson & Johnson Co., Missoula, Mont., (a) $74,430, (b) $74,680. Noted Sept. 7.

**Wyo., Ft. Laramie**—Canal Work—U. S. Rec. Ser. let contract Schedules 1 to 7, earthwork and structures, Ft. Laramie Canal, North Platte Project, to WINSTON BROS. CO., Minneapolis, Minn., $32,147. Noted Oct. 19.

**Mont., Malta**—Reclamation—U. S. Rec. Ser. let contract structures on Milk River Project to BOOTH & KNIPE, Saco, about $28,384. Noted Oct. 12.

**Mont., St. Ignatius**—Canal Work—Low bidders Flathead Project, (a) Schedule 1, (b) Schedule 2, (c) Schedule 3, (d) Schedule 4, were: J. E. Hilton, Billings, (a) $14,045, (b) $13,770, (c) $10,110; N. Rich, Dixon, (a) $17,928, (b) $17,616, (c) $13,600, (d) $19,725; Mendenhall, Bird & Co., Springville, Utah, (a) $16,455, (b) $15,290, (c) $12,796, (d) $26,533. Noted Sept. 14.

## CANALS, DITCHES AND IRRIGATION

### Proposed Work

**Ohio, Bellefontaine**—Ditch Improvement—Comrs. Shelby, Logan and Auglaize Counties soon receive bids for improving Muchinippi Creek Ditch. About $51,000. Address County Clk., Sidney. Noted Mar. 2.

**Ind., Muncie**—Drainage—Delaware and Henry Counties making surveys for draining Brush Creek, about $100,000.

**Ind., Plymouth**—Ditch—Marshall County receiving bids Nov. 4 for Seraphine Schub Ditch. A. W. Thomson, Plymouth, Surv.

**Ill., Quincy**—Drainage—Comrs. Indian Grave Drainage Dist., 615 Hampshire St., receiving bids Nov. 11, about 1,154,000 cu.yd. ditches for drainage. W. A. Grieser, Chn. Comrs. Noted Sept. 7.

**Iowa, Burlington**—(Official)—Drainage—Des Moines County receiving bids Nov. 1, Dist. No. 6. A. J. Wirth, Burlington, Audr.

**Minn., Albert Lea**—Ditch—Freeborn and Wasseca Counties soon receive bids for Judicial Ditch No. 2. About $166,000. Address County Clk., Albert Lea.

**Minn., Duluth**—Ditch—St. Louis County receiving bids Oct. 31 for County Ditch No. 6 to drain land between Whiteface River on east and St. Louis River on west. About $250,410. O. Halden, Duluth, County Audr. Noted Oct. 12.

**Minn., Morris**—Ditch—Stevens County received no bids for Ditch No. 33. Noted Oct. 5.

**Minn., Redwood Falls**—Ditch—Redwood County receiving bids Oct. 31 for Ditch No. 9, about $115,155; Ditch No. 39, about $12,052; Ditch No. 17, about $69,180; Ditch No. 18, $125,241. L. P. Larson, Redwood Falls, County Audr.

**Neb., Auburn**—Drainage—Drainage Dist. No. 3, Nemaha County, receiving bids Nov. 4 for about 9 mi. channel including 335,000 yd. excavation. J. F. Relf, Falls City Engr. Noted Jan. 27.

**Tex., Donna**—Drainage—Hidalgo County Drainage Dist. No. 1 receiving bids Oct. 30 for Sects. 1, 2 and 3 of protection levee. C. S. Clark, Donna, Dist. Engr.

**Ore., Prineville**—Irrigation—Ochoco Irrigation Dist., Crook County, plans election to vote on bonds for irrigating about 23,400 acres. R. W. Rea, Prineville, Project Engr.

**Calif., Terra Bella**—Irrigation—Bd. Dir. Terra Bella Irrigation Dist. receiving bids Nov. 13 for 1st unit of project. About $500,000. S. T. Kieffer, 57 Post St., San Francisco, Ch. Engr. Noted May 25.

### Bids In and Contracts Awarded

**N. Y., Albany**—(Official)—Barge Canal Work—Low bidders Barge Canal work (a) Contract No. 19-A, Erie Canal, Sect. 11, redredging: (b) Contract No. 139, Oswego Canal, Sect. 1, excavating channel of Oswego River; (c) Contract No. 140, Champlain Canal, Sect. 1, bank protection along Hudson River near Waterford; (d) Terminal Contract No. 19, dredging, bulkhead, wall and pier at Greenpoint, Brooklyn; (e) Terminal Contract No. 26, pier and dredging terminal basin in Lake Champlain, Rouses Point; (f) Terminal Contract No. 53, dock wall along Dead Creek and Ohio Basin, Buffalo, were: H. S. Kerbaugh, Inc., Telephone Bldg., Buffalo, (a) $169,759, (b) $25,912, (f) $554,500; Great Lakes Dredge and Dock Co., Buffalo, (a) $216,053; Eastover Construction Co., Utica, (a) $218,227; J. Stewart & Co., Inc., New York, (b) $29,980; Holler & Shepard, E. & B. Bldg., Rochester, (c) $4,559; Farrell & McEntee, Ft. Edward, (c) $4,565; W. R. Kimmey, Albany, (c) $4,700; Mason, Hilton & Co., 17 Battery Pl., New York, (d) $207,387; Riverside Contracting Co., New York, (d) $219,216; E. B. Baker, Herkimer, (d) $227,829, (e) $59,600; J. E. Byron & Co., Cohoes, (e) $55,678; A. A. Parker, Waterford, (e) $59,542; Walsh Construction Co., Davenport, (f) $532,584; Larkin & Sangster, Buffalo, (f) $534,615. Noted Sept. 21.

**N. Y., Albany**—(Official)—Barge Canal Work—State Supt. Pub. Wks. let contract barge canal work, Contract No. 2, Olean flood abatement work, to LORD CONSTRUCTION CO., 105 West 40th St., New York, about $64,716. Noted Sept. 28.

**N. Y., New York**—(Brooklyn)—(Official)—Dredging—Borough let contract Newtown Creek Canal to J. & J. McSPIRIT, 118 Wayne St., Jersey City, about $7,020. Noted Oct. 19.

**Ill., East St. Louis**—Dredging—Contract dredging in East Side Levee and Sanitary Dist. let to A. B. WILLS & SONS, St. Louis, $200,000. Noted Aug. 12, 1915.

**Iowa, Emmetsburg**—Ditch—Palo Alto County let contract Ditch No. 92 to A. EIKEWALD, Emmetsburg, about $4,425; tile work in Ditch No. 21 about $4,374.

**Iowa, Jefferson**—Drainage—Green County let contracts to MATTHEWS BROS., Erie, drain, 11c. per yd.; JEFFERSON CEMENT PRODUCTS CO., labor, $57,563.

**Minn., Crookston**—(Official)—Ditch—Polk County let contract Ditch No. 103 to UNION DRAINAGE CO., Crookston, about $5,165. Noted Oct. 5.

**Minn., Fairmont**—Ditch—Martin County let contract Judicial Ditch No. 60 to C. A. WALB, La Grange, about $9,903; tile work to CEYLON CEMENT TILE CO., Ceylon, $41,500. Noted Oct. 26.

**Minn., Fairmont**—Ditch—Martin County let contract Judicial Ditch No. 71 to O. M. ANDERSON, Somers. Noted Oct. 5.

**Minn., Glyndon**—Canal—Northern Pacific Ry. let contract canal to turn course of Buffalo River to WINSTON BROS. CO., 101 Globe Bldg., Minneapolis.

**Minn., Long Prairie**—(Official)—(Ditch)—Tood County let contract Ditch No. 33 to ALDEN & TAHERY, Bertha. Noted Sept. 21.

**Minn., Moorhead**—(Official)—Ditch—Clay County let contract excavation for Ditch No. 2 to KING & EICHMILLER, Frazee, about $4,112. Noted Oct. 5.

**Minn., Morris**—Ditch—Stevens County let contract Ditch No. 29 to TELFORD & GREEN, Benson, about $10,551. Noted Oct. 5.

**Minn., Owatonna**—Ditch—Steele County let contract Ditch No. 5 to E. L. HAINES, Owatonna, about $5,319.

**Minn., Roseau**—(Official)—Ditch—Roseau County let contract excavation Judicial Ditch No. 63 to NORTHERN MINNESOTA DRAINAGE CO., Litchfield, at 10.10c. per cu.yd. Noted Sept. 28.

**Minn., St. James**—(Official)—Ditch—Watonwan County let contract Judicial Ditches Nos. 14 and 15 to H. TRUELSON, Westbrook, about $18,858. Noted Sept. 28.

**Kan., Westmoreland**—Channel—Bd. Dir. Belvue Drainage Dist. received low bid changing channel of Vermillion River and 2 tributaries from Munn-Reise Construction Co., Daniels Bldg., Kansas City, about $36,198. Noted Oct. 12.

**Neb., Hartington**—Ditch—County let contract Brookey Bottom Ditch to W. HOHERSON, Yankton, S. D. Noted Sept. 28.

**Calif., Los Angeles**—Drainage—Dominguez Estate Co., 807 Title Insurance Bldg., let contract drainage and storm water canal for conveying surface water from Nigger Slough to point near Watson Station on Pacific Electric Ry., Los Angeles-San Pedro Line to T. J. SHEA, 203 Oxford Ave., about $35,000. Noted Sept. 28.

**Calif., Oakdale**—(Official)—Widening Canals—Bd. Dir. Oakdale Irrigation Dist. let contract widening canals at Two Mile Bar to TIESLAN BROS., Oakland, about $5,000. Noted Oct. 12.

**Calif., San Jose**—Ditch—Santa Clara County received low bids drainage ditch Dists. Nos. 4 and 5 from L. T. McFADDEN, $5,114.

## MISCELLANEOUS

### Proposed Work

**Maine, South Brewer**—Fire House—City plans. W. E. Mansur, Arch.

**R. I., Kent**—(Hope post office)—(Official)—River Improvements—City plans concrete conduit about 500 ft. long, 25 ft. wide and 21 ft. high in rock foundation, together with approach channels and other appurtenant works for diverting flow of Pawtuxet River across site of main dam of Scituate Reservoir. F. E. Winsor, 661 Westminster St., Ch. Engr.

**Conn., Bolton Notch**—Elimination of Grade Crossings—State Highway Comm., Hartford, plans. C. J. Bennett, Hartford, State Highway Comr.

**N. Y., Hornell**—Coal Pockets and Interlocking Switch System—Erie R.R. plans to spend about $80,000. W. J. English, Hornell, Div. Supt. R. S. Parsons, 50 Church St., New York, Ch. Engr.

**N. Y., New York**—(Boroughs of Bronx and Queens)—Signal Towers—Pub. Ser. Comm. for First Dist., 120 Broadway, Manhattan, receiving bids Nov. 9 (extension of date), for 13 signal towers on River Rd. Ave. and Jerome Ave. extension of Seventh Ave.-Lexington Ave. line, White Plains Rd. line and Queensboro Subway. Noted Oct. 12.

**N. J., Trenton**—(Official)—Filling—Comptroller of Treasury, State House, receiving bids Oct. 27 for about 12,000 cu.yd. filling on lands in rear of State Capitol, State House Park. E. I. Edwards, Comptroller. (See adv. Oct. 19 issue.)

**N. J., Trenton**—(Official)—Park Improvements—State House Comn., State House, receiving bids Oct. 27 for grading, laying of pipes, building paths, etc., at State House Park. E. I. Edwards, Comptroller, Secy. State House Comn. (See adv. Oct. 19 issue.)

**Penn., Bethlehem**—Elimination of Grade Crossings—Pub. Ser. Comn. plans to eliminate 5 grade crossings in Bethlehem and South Bethlehem. About $1,000,000. A. M. Cawley, City Engr.

**Penn., Philadelphia**—Fire Station—City plans 2-story addition, Oak Lane. C. E. Albright, City Engr.

**Ky., Covington**—Elimination of Grade Crossings—Louisville & Nashville R.R. and Chesapeake & Ohio Ry. plans to eliminate all crossings in city. W. H. Courtneay, Louisville, Ch. Engr. of former and F. I. Cabell, Richmond, of latter.

**Ohio, Cincinnati**—Fire Station—City receiving bids Nov. 21, West 6th St. F. Krug, City Engr.

**Ohio, Cincinnati**—Ice Skating Rink—D. J. Dickson plans, Peebles Corner, about $35,000. Preliminary plans made.

**Ohio, Cincinnati**—Tunnel—Bd. Education receiving bids Nov. 16 for tunnel for Industrial Arts Building, power house and stadium at East Side High School. C. W. Handman, Business Mgr.

**Ohio, Hamilton**—Parks and Playgrounds—City plans $10,000 bond issue. F. E. Weaver, City Engr.

**Ohio, Lima**—River Improvements—City soon receives bids for improving Ottawa River, about $100,000. C. H. Bryson, City Engr. Noted May 25.

**Ohio, Lorain**—Coliseum—Lorain Ad. Club plans to sell $35,000 stock for coliseum.

**Ill., Chicago**—Bathing Beaches—City election Nov. 7 to vote on $2,450,000 bonds, bathing beaches, parks, playgrounds and swimming pools. A. E. Block, Chn. City Special Parks Comn. Noted Sept. 7.

**Wis., Milwaukee**—(Official)—Animal House—Bd. Park Comrs. rejected bids, Washington Park. About $50,000. New bids. F. Schumacher, Secy. Noted Oct. 5.

**Wis., Milwaukee**—Docks—Dept. Pub. Wks. receiving bids Oct. 28 for Dock No. 1, foot National

Miscellaneous (Continued)

Ave.; Dock No. 2, foot alley between Fowler and Clybourn St.; Dock No. 3, along Milwaukee River, west side, north Fowler St. F. G. Simmons, Comr. Pub. Wks.

**Neb., Omaha**—Elimination of Grade Crossings—County Comrs. and officials of Union Pacific R.R. plan, Sarpy Crossing. R. L. Huntley, 15th and Dodge St., Omaha, Ch. Engr.

**Neb., Omaha**—Elimination of Grade Crossing—Missouri Pacific Ry. made plans, Dodge, Douglas and Farum St. About $200,000. E. A. Hadley, Railway Exchange Bldg., St. Louis, Ch. Engr. Noted June 22.

**Tex., Dallas**—Levee—Dallas County Levee Impvt. Dist. No. 1 voted $48,000 bonds for 10-mi. levee along Trinity River and Cottonwood Creek. Address County Clk., Dallas. Noted Oct. 12.

**Tex., Texas City**—Levee—Pierce-Fordyce Oil Association plans around oil refinery and auxiliary plant. About $25,000.

**Tex., Wichita Falls**—Park Improvements—City election Nov. 7 to vote on $7,500 bonds. L. C. Hinckley, City Engr.

**Okla., Tulsa**—Subway—Midland Valley R.R. plans to spend about $50,000. R. C. Kaighn, Muskogee, Ch. Engr.

**Colo., Denver**—Bath House—American Smelting and Refining Co. plans, 5100 Pennsylvania St., about $11,000.

**Ore., Oswego**—Docks—Oregon Portland Cement Co. plans.

**Calif., Colton**—(Official)—Bulkhead—County received no bids bulkhead along Santa Ana River. Work deferred until next year. J. A. Sourwine, San Bernardino, County Engr. Noted Sept. 21.

**Calif., Los Angeles**—Wharf, Transit Shed, Etc.—Building Dept. granted permit for 50x900-ft. wharf, 100x502-ft. shed and 60x304-ft. fish-market building. Homer Hamlin, City Engr.

**Calif., San Bernardino**—River Protection—Bd. County Supervs. receiving bids Oct. 30, along Mohave River. L. R. Patty, San Bernardino, County Clk.

**Que., Notre Dame de Grace**—Subway—Railway Comn., Montreal, adopted plans for subway under tracks Canadian Pacific Ry., Melrose Ave.

**Ont., Hamilton**—Subway—Council making plans, under tracks of Grand Trunk Ry. between Dunderrin Park and Bay Shore. About $6,000. E. R. Gray, Engr.

**Ont., Oakville**—Fire Hall—Council accepted plans to W. Connery, 72 Queen St., W., Toronto. About $8,000.

**Ont., Preston**—Subway, Etc.—Council plans rein.-con. subway and bridge. About $50,000. C. S. McKenzie, City Engr.

### Bids In and Contracts Awarded

**Mass., Boston**—(Official)—Fence—City let contract fence around Suffolk County Jail to W. PREBLE CO., 11 Pemberton Sq., about $7,242.

**Mass., Boston**—(Mattapan)—Fire Station—City let contract to P. H. ROSE CONSTRUCTION CO., 730 Washington St., about $15,950. Noted Oct. 5.

**Mass., Boston**—(South Boston)—Fire Station—City let contract to CROWLEY & HICKEY, 1140 Columbus Ave., $31,198. Noted Oct. 12.

**Mass., Boston**—(Charlestown)—Sea Wall and Bulkhead—Revere Sugar Refinery, 15 Broad St., let contract Mystic River to HOLBROOK, CABOT & ROLLINS CORPORATION, 6 Beacon St., about $55,000.

**Mass., Millers Falls**—(Official)—Head Gate Walls, Etc.—Millers Falls Co. let contract concrete head gate walls and concrete canal walls to H. P. CUMMINGS CONSTRUCTION CO., Ware.

**Mass., Somerville**—Bathhouse—City let contract to J. E. L. McLEAN, 10 Faneuil Sq., Boston, about $5,500. Noted July 27.

**N. Y., New York**—(Bronx)—Filling—O. Daniels, Woolworth Bldg., Manhattan, at $74,341, low bidder filling swamp lands, southerly portion Van Cortlandt Park. Noted Oct. 12.

**N. Y., New York**—(Brooklyn)—(Official)—Track Floors and Platforms—Low bidders concrete track floors and platforms over mezzanines of 11 stations on Culver Rapid Transit R.R. between 37th St and 10th Ave. and intersection of Gravesend Ave. and Ave. X were: Snare & Triest, Woolworth Bldg., Manhattan, $52,654; A. L. Guidone & Son, $57,614; Jobson, Gifford Co., $57,180. Noted Oct. 5.

**N. Y., New York**—(Manhattan)—Elevated Railway Work—New York Municipal Ry. Corporation received bids Oct. 9 erecting 3rd rail and track rail bonding in connection with Broadway-Fourth Avenue line on Manhattan Bridge and Canal St. from Lewis H. Woods Construction Co., 2355 Jerome Ave., Bronx, $220,000; Jobson-Gifford Co., 30 East 42nd St., $223,000; T. H. Reynolds Contracting Co., 13 Park Row, $228,600.

**N. Y., New York**—(Manhattan)—(Official)—Pier—Contract extending Pier No. 47, Perry St., North River, let to A. N. SPOONER & SON, $12,500. Noted Aug. 10.

**N. Y., New York**—(Manhattan)—(Official)—Station Finish—Contract station finish for 6 stations on Rapid Transit Railroads now being constructed under Dual System let to L. WECHSLER, 133 Broadway, $383,000. Noted Oct. 12.

**N. J., Hoboken**—Piers—Hoboken Land and Improvement Co. let contract to HENRY STEERS, INC., 17 Battery Pl., New York, $350,000. Noted Aug. 24.

**N. J., Moorestown**—Fire House—Moorestown Hose Co. No. 1 let contract to H. VENNELL, Moorestown, about $6,500. Noted Oct. 12.

**Penn., Philadelphia**—Playground Improvements—Bd. Recreation let contract Berks and Blair St., to MITCHELL BROS., 2125 Race St., about $44,500. Noted Oct. 12.

**Penn., Philadelphia**—Playground Improvements—Bd. Recreation let contract, 24th and Jackson St., to MITCHELL BROS., 2125 Race St., about $47,000. Noted Oct. 12.

**Va., Norfolk**—Pier—Chesapeake & Ohio Ry. let contract, foot of Tazewell St., to HARWOOD & MOSS, Newport News, about $100,000. Noted Oct. 5.

**Ga., Augusta**—(Official)—Bulkhead and Gates—River and Canal Comrs. let contract for water control across Butler's Creek to E. W. HANCOCK, 801 Cranford Ave., about $36,860. Noted Oct. 5.

**La., New Orleans**—Levee—State Engrs. let contract St. Gabriel Church Levee, Iberville Parish, to G. W. GARIG CONSTRUCTION CO.

**Ohio, Cleveland**—Bathhouse—J. Makoff, 3533 Woodland Ave., let contract to DOLINSKY BROS., 1894 East 65th St., about $20,000.

**Ohio, Cleveland**—(Official)—Comfort Station—City rejected bids, Euclid Ave. and 55th St. Noted Sept. 28.

**Ohio, Cleveland**—(Official)—Comfort Station—City rejected bids, West 14th and Abbey St. Noted Sept. 28.

**Ohio, Cleveland**—Comfort Station—City let contract, Brookside Park, to F. A. SKEEL, about $8,532. R. Hoffman, City Engr.

**Ohio, Cleveland**—Market—City let contract, Euclid Ave. and Superior St., to G. A. RUTHERFORD CONSTRUCTION CO., 2160 East 18th St. About $110,000.

**Ohio, East Youngstown**—Bathhouse—J. G. Brody, 721 Himrod Ave., let contract to B. RUDICK, 711 Myrtle Ave., Youngstown, about $16,000.

**Ind., Indianapolis**—Comfort Station—Bd. Pub. Wks. received bids removal of comfort station from Kentucky Ave. from Shiel Construction Co., $14,997, and G. Schauer & Son, $9,795.

**Wis., Ashland**—(Official)—Dock—Chicago & Northwestern Ry. let contract to G. SMITH & LEE, St. Paul, about $1,500,000. Noted Oct. 5.

**Okla., Cushing**—Pipe Line—Sinclair Oil Co., Tulsa, let contract to BOOTH & FLINN, 1942 Forbes St., Pittsburgh. Noted Sept. 7.

**Ore., Oregon City**—Dock and Warehouses—City let contract to F. BUSCH, about $10,000.

**Calif., Colusa**—Levee Work—City rejected bids raising water-front levee. Work to be done by day labor.

**Calif., San Francisco**—Sea Wall—State Bd. Harbor Comrs. received low bids between Jones and High St. from Blake Bros., $66,150; Daniel Contracting Co., $67,950; Healy-Tibbits Construction Co., $88,650.

## BUILDINGS

### Proposed Work

*Other items relative to Building Construction will be found under the following headings: "Industrial Works," "Federal Government Work" and "Miscellaneous."*

**Conn., Fairfield**—(Official)—School—Town receiving bids Feb. 1, 2-story addition. About $40,000. Skinner & Walker, 1188 Main St., Bridgeport, Arch. Noted Oct. 19.

**Conn., Hartford**—A. Lindsey, 45 Weathersfield Ave., making plans for 2-story addition to home, about $50,000. B. W. Morris, 101 Park Ave., New York, Arch.

**Conn., South Norwalk**—Hospital—Norwalk Hospital Association making plans, 3-story, about $100,000. W. A. Boring, 32 Broadway, New York, Arch.

**N. Y., Canton**—New York State School of Agriculture receiving bids Oct. 28 for addition. Lewis F. Pilcher, Capitol, Albany, Arch.

**N. Y., Elmira**—Dormitory—Pierce & Bickford, Arch. and Engr., 118 Lake St., receiving bids Oct. 28, 3-story, 40x142-ft., at Elmira College. About $50,000. Noted Oct. 19.

**N. Y., Endicott**—Theater—Benjamin A. Dittrich, Parsons Ave., receiving bids Oct. 30, Washington and Monroe St.

**N. Y., Ft. Edward**—Church—St. Joseph's Congregation plans, 1½-story, about $60,000. M. L. and H. G. Emery, Bible House, New York, Arch.

**N. Y., Lockport**—Niagara County plans tuberculosis hospital, about $100,000. F. A. Carlton, R. F. D. No. 1, Lockport, Chn. Bd. Superv. C. Phelps, Gluck Bldg., Niagara Falls, Arch.

**N. Y., New Hampton**—(Official)—Dept. Correction, Room 2400, Municipal Bldg., New York, receiving bids Nov. 10, 4-story building. William Goldsmith, New Hampton, Constr. Engr. Noted Sept. 21.

**N. Y., Syracuse**—Y. W. C. A. making plans for buildings, about $150,000. Taylor & Bonta, 615 Gurney Bldg., Arch. M. F. Tracey, Montgomery St., Secy.

**N. Y., Walkill**—Auditorium and High School—School Bd. making plans, 3-story. G. E. Lowe, 261 Fair St., Kingston, Arch. W. Thompson, Pres. Bd. Trustees.

**N. J., Bridgeton**—High School—Bd. Education making plans, 2-story. About $125,000. G. W. McGowan, Bridgeton, Secy. E. Z. Scholl, 31 North 16th St., Reading, Arch. Noted Sept. 21.

**N. J., Perth Amboy**—Perth Amboy Savings Institution making revised plans, 2-story, 50x75-ft. bank, store and office building. About $75,000. Holmes & Winslow, 103 Park Ave., New York, Arch.

**N. J., Ridgewood**—High School—Bd. Education making revised plans. Noted Aug 31.

**N. J., West Orange**—Hotel—P. H. Smith, Northfield Ave., interested in company to build, 2-story, 100x150-ft. About $40,000.

**Penn., Berwick**—Bower Memorial United Evangelistic Church plans, church at 2nd and Arch St. About $50,000. E. B. Bailey, 139 East Front St., Pastor.

**Penn., Butler**—Comrs. Butler County receiving bids about Feb. 1 for tuberculosis hospital, about $50,000. Harry Wimer, Arch.

**Penn., Carlisle**—School—Dickinson School of Law making plans, 2-story, 63x145-ft. About $40,000. J. P. McKeehan, Chn. Bldg. Com. R. R. Harkley, Patriot Bldg, Harrisburg, Arch. Noted June 8.

**Penn., Centerville**—Grade and High School—Bd. Education making preliminary plans for vocational grade and high school, 2-story, about $50,000. H. W. Altman, First National Bank Bldg., Uniontown, Arch.

**Penn., Coatesville**—National Bank of Chester Valley plans to alter and enlarge bank, store and apartment building. About $60,000. H. E. Stone, 116 East Main St., Cashier.

**Penn., McKees Rock**—School—Bd. Education plans election Nov. 7 to vote on $150,000 bonds.

**Penn., Philadelphia**—Convention Hall—City soon lets contract, 22nd and Callowhill St., about $1,438,000 available. G. R. Datesman, Dir. Dept Pub. Wks.

**Penn., Philadelphia**—First Reformed Church making plans for church and Sunday school, 2-story, 50th and Locust St., about $60,000. Stickert & Co., Crozer Bldg., Arch.

**Penn., Philadelphia**—Hotel—Kugler Restaurant Co., 1412 Chestnut St., making plans, 18-story, 30 South 15th St. About $2,000,000.

**Penn., Pottsville**—Miners' National Bank making revised plans for alterations to building. About $40,000. Mowbray & Uffinger, 56 Liberty St., New York, Arch.

**Penn., St. Clair**—Parish House—S. S. Peter and Paul Church receiving bids Oct. 30, 3-story. W. D. Hill, Pottsville, Arch.

**Penn., Sunbury**—School—City plans election in November to vote on $160,000 school bonds.

**Penn., Swissvale**—High School—City receiving bids about Jan. 1, about $180,000. C. Howard Lloyd, Telegraph Bldg., Harrisburg, Arch

**Va., Roanoke**—Hotel—Norfolk & Western R.R. plans addition, 5-story, about $125,000. A. C. Needles, N. & W. Bldg., Gen. Mgr. Frye & Chesterham, Kirk Ave., Arch.

**W. Va., Huntington**—School—Bd. Education receives bids about Nov. 1, 2-story. About $50,000. V. T. Ritter, First National Bank Bldg., Arch.

**N. C., Henderson**—Church—First Baptist Congregation made plans. About $50,000. J. J. McMichael, Charlotte, Arch.

**Tenn., Ooltowah**—Seventh Day Adventists plan institution to be known as Southern Training College. About $125,000. Address Bd. Trus., Southern Training School, Graysville.

**Ky., Ashland**—Bank and Office—Ashland National Bank, 17th and Winchester St., plans, 14-story. About $300,000. J. Russell, Pres.

**Ohio, Briggsdale**—School—Bd. Education receiving bids Nov. 6, Franklin Township Rural Dist. Bassett & Tresselt, Central National Bldg., Columbus, Arch.

**Ohio, Cleveland**—Church—East End Baptist Church, Euclid and 97th St., made plans. About $80,000. M. W. Maurer, 1335 Schofield Bldg., Arch.

**Ohio, Cleveland**—Church—Sacred Heart of Mary Congregation receiving bids Nov. 1, on Pearl Rd. About $125,000. Henry Walsh, 255 Lennox Bldg., Arch.

**Ohio, Cleveland**—Freight House and Office Building—Baltimore & Ohio Railroad Co. making plans, on West St. About $135,000. A. Lang, Arch. R. N. Begien, City Engr.

**Ohio, Elyria**—Theater and Store—Majestic Mutual Building Co. plans 1- and 2-story. About $100,000. P. Rissman, Elyria Blk., Arch.

**Ohio, Findlay**—School—Jackson Township plans election to vote on $60,000 bonds.

**Ohio, Granville**—High School—City election Nov. 7 to vote on $60,000 bonds, 2-story. W. W. Butt, Pres. Bd. Education.

**Ohio, Hamilton**—City Hall—City plans voting on $300,000 bonds. Charles Manny, City Clk. Noted June 15.

**Ohio, Hilliards**—Grade and High School—Norwich Township receiving bids Nov. 15, 2-story.

Buildings (Continued)

About $40,000. Frank L. Packard, 1212 Gayden Bldg., Columbus, Arch. Noted Sept. 7.

**Ohio, Lima**—High School—Bd. Education making plans, about $400,000. McLaughlin & Hulsken, 610 Savings Bldg., Arch. Noted Sept. 21.

**Ohio, Marion**—Hotel—Lewis Hotel Co. soon receives bids, 7-story, 60x135-ft., about $125,000. Thies & Thies, 5th floor, Davies Bldg., Dayton, Arch. Noted Aug. 10.

**Ohio, Milford**—Church—St. Andrews Congregation plans. About $40,000.

**Ohio, Newark**—School—Parish of St. Francis De Sales soon to receive bids, 2-story. About $60,000. Howard & Merriam, Columbus, Arch. Noted Aug. 24.

**Ohio, Portsmouth**—Security Savings Bank and Trust Co. making plans for 3-story bank, store and office building. About $50,000. Ritter & Bates, 45 First National Bank Bldg., Arch.

**Ohio, Warren**—Schools—Bd. Education votes Nov. 7 on $430,000 bonds for 3 schools. Ruth E Dillon, Clk.

**Ohio, Warrensville**—Council plans $100,000 bond issue to enlarge tuberculosis sanitarium. L. T. Beman, City Hall, Cleveland, Dir. Pub. Welfare.

**Ind., South Bend**—Hotel—Jefferson Hotel Co. plans 4-story, 56x165-ft. hotel to be leased by Van Volkenburg Bros., Plaza Hotel, Danville. F. C. Toepp, 525 West Washington Ave., interested. Lewis & Dougherty, 35 North Dearborn St., Chicago, Arch.

**Mich., Grand Rapids**—Auditorium—Bd. Education soon to receive bids for 3-story, 60x100-ft. About $50,000. H. H. Turner, North Division St., Grand Rapids, Arch.

**Mich., Kalamazoo**—O. Wenderoth, Arch., 1907 South Michigan Ave., Chicago, receiving bids Oct. 30 for 3-story bank, store and office building for First National Bank. About $165,000. E. H. Shepherd, Kalamazoo, Cashier. Noted June 22.

**Mich., Traverse City**—High School—Bd. Education soon to receive bids, 2-story, 136x80-ft. About $100,000. Jene S. Peperson, Arch. Noted Feb. 17.

**Ill., Chicago**—Freight Terminal—Chicago & Alton Railroad Co. receives bids about Nov. 15, 3- and 5-story. About $500,000. H. T. Douglas, Jr., Transportation Bldg., Chicago, Ch. Engr.

**Ill., Marseilles**—Hotel—R. C. McCloud and S. E. Thompson, Marseilles, plan. About $60,000.

**Ill., Springfield**—Bd. Education making plans for Douglas Grade School, 1-story, 130x191-ft., about $75,000. H. S. Magill, Leland Bldg., Supt. Helmle & Helmle, Ferguson Bldg., Arch. Noted Sept. 28.

**Wis., Pewaukee**—High School—Bd. Education making plans, 2-story, about $42,000. Van Ryan & DeGelleke, Caswell Blk., Milwaukee, Arch. Noted Aug. 10.

**Wis., Racine**—Auditorium and Armory—Armory Comn. plans, about $85,000. A. Guilbert, Arch.

**Wis., Taycheedah**—State Bd. Control, Madison, receiving bids Nov. 1 for administration building and 1 cottage for "Industrial Home for Women."

**Iowa, Ames**—Dormitory—Bd. Education, Capitol, Des Moines, receiving bids Oct. 31 for Women's Dormitory No. 3, 3-story, about $45,000. Proudfoot, Bird & Rawson, Hubbell Bldg., Des Moines, Arch.

**Iowa, Beaman**—Grade and High School—Bd. Education receiving bids Nov. 13. E. G. Elliott, Secy. Reimer & Herlin, Marshalltown, Arch.

**Iowa, Hampton**—Hotel—Banker Realty Investment Co. plans, 3-story. About $75,000.

**Iowa, Mason City**—Y. M. C. A. plans building. About $75,000.

**Minn., Fairmont**—First Church of Christ Scientist making plans for superstructure, 2-story, about $40,000. G. W. Jones, 923 Lumber Exchange Bldg., Minneapolis, Arch.

**Minn., Kellogg**—School—Bd. Education made plans, 2-story, about $40,000. P. I. Psalter, Supt. G. J. Hoffman & Co., Rochester, Arch.

**Minn., Mankato**—G. J. Hoffman & Co., Rochester, made plans for tuberculosis sanitarium. About $45,000.

**Minn., Minneapolis**—Gymnasium and Club House—Church of Ascension plans, 2-story. About $100,000. Bertrand & Chamberlin, Bank of Commerce Bldg., Arch.

**Minn., Minneapolis**—Hampshire Arms Hotel Co., 9th and 4th Ave., S., plans 10-story addition, about $475,000. J. L. Luce, Pres.

**Minn., Minneapolis**—Office—Minneapolis Builders' Exchange plans, 12-story, terra cotta and brick, 2nd Ave., S. About $400,000. Bertrand & Chamberlin, Bank of Commerce Bldg., Arch.

**Minn., Minneapolis**—Hospital—University of Minnesota plans, about $1,500,000.

**Minn., Minneapolis**—Asbury Hospital, 9th and Elliott Ave., plans nurses' home. About $50,000.

**Minn., St. Paul**—Theater—S. Jacobson, Capitol Bank Bldg., receives bids about Jan. 1, 1-story, 61x135-ft. About $40,000. Noted Oct. 5.

**Minn., South St. Paul**—City plans Carnegie Library and Community Building, about $40,000. F. H. Elberlee, Endicott Bldg., St. Paul, Arch.

**Minn., Wadena**—Asbury Hospital, Minneapolis, plans nurses' home at Wadena. About $50,000.

**Minn., Winona**—Hotel—E. L. King, c-o Watkins Medicine Co., plans, about $100,000.

**Kan., Abilene**—High School—City voted $90,000 bonds. W. H. Sayler, 606 Gumbel Bldg., Kansas City, Arch. Noted Sept. 28.

**Kan., El Dorado**—High and Grade School—Bd. Education made plans, 2-story, 48x162-ft. About $45,000. Crowell & Van Meter, 602 Murdock Bldg., Wichita, Arch. Noted Aug. 24.

**Kan., Hugoton**—Court-House—Stevens County to vote Nov. 7 on $60,000 bonds.

**Kan., Marysville**—Hospital—Marshall County election in November to vote on $40,000 bonds. Address County Clk., Marysville.

**Kan., Newton**—School—Bd. Education making plans, 2-story, about $60,000. Greenbaum & Hardy, 216 Scarritt Bldg., Kansas City, Mo., Arch. Noted Aug. 10.

**Kan., Sedan**—Court-House—Chautauqua County to vote Nov. 7 on $50,000 bonds.

**Kan., Smith Center**—Court House—Smith County election Nov. 7 to vote on $80,000 bonds. Address County Clk., Smith Center.

**Kan., Winfield**—Hotel—J. M. Fuller, Arch., Conley Bldg., making plans, 4-story. About $100,000.

**Neb., Cozal**—High School—School Bd. receiving bids Nov. 3. About $40,000. R. A. Bradley & Co., Hastings, Arch.

**Neb., Harvard**—Bank—City making plans. About $55,000. W. C. Way, Hastings, Arch.

**Neb., Hastings**—School—Bd. Education voted $125,000 bonds. Noted Sept. 28.

**Neb., York**—Hotel—F. W. Clarke, Arch., Omaha, made plans, 5-story, rein.-con. and brick, Grant Ave., about $100,000.

**N. D., Charison**—Schools—Bd. Education receiving bids Oct. 30 for 2 schools. W. H. Dunn, Clk.

**N. D., Napoleon**—School—Foster School Dist. No. 2, Logan County, Napoleon, receiving bids Oct. 30.

**Mont., Livingston**—High School—City voted $45,000 bonds. Plans being made. Noted Oct. 19.

**Mont., Missoula**—High School—City voted $75,000 bonds. Noted Oct. 12.

**Tex., Ft. Worth**—Hotel—B. F. Johnson made preliminary plans, 6-story, about $150,000. Sanguinett & Staats, Arch.

**Tex., Snyder**—Hospital—Surry County Comrs. plan election to vote bonds.

**Okla., Ardmore**—Convention Hall—City receiving bids Nov. 1 for plans, about $60,000. G. H. Bruce, City Clk. Noted July 20.

**Okla., Frederick**—Court House—City election Nov. 7 to vote on $110,000 bonds.

**Okla., McAlester**—Masonic Building Co. plans an addition. About $200,000.

**Okla., Woodward**—City Hall—City votes Nov. 7 on $50,000 bonds. H. Alexander, City Clk.

**Colo., Denver**—Denver Homeopathic College and Hospital Association making plans for improving Park Ave. Hospital.

**Colo., Denver**—Administrative—School Bd. plans, 5-story, Longfellow School Grounds.

**Idaho, Idaho Falls**—Courthouse and Jail—City votes Nov. 7 on $100,000 bonds.

**Wash., Spokane**—Bank—Old National Bank made plans for alterations. About $50,000. Graham, Burnham & Co., 8 East Jackson St., Chicago, Arch.

**Wash., Spokane**—(Press)—Hanauer Building to be improved and enlarged. About $80,000. Address F. Jones, c-o F. B. Grinnell Co., Terminal Bldg.

**Ore., Enterprise**—L. W. Riley soon let contract for 3-story business block, Main and West 1st St., for L. W. Riley, about $65,000. Tourtellotte & Hummel, Rothchild Bldg., Portland, Arch.

**Ore., Grants Pass**—Court House—County receiving bids Nov. 2. E. L. Coburn, Grants Pass, County Clk. E. E. McClaren, Merchants Exchange Bldg., Portland, Arch.

**Calif., Fresno**—Hospital—Fresno County receiving bids Nov. 8 for addition, about $55,000. D. M. Barnell, Fresno, County Clk. Glass & Butner, Republican Bldg., Arch. Noted Oct. 12.

**Calif., Los Angeles**—Local Missionary Society of Methodist Episcopal Church, 255 East 7th St., plans building. About $150,000. C. E. Sweet, Supt.

**Calif., Yreka**—High School—Siskiyou County votes Nov. 4 on $60,000 bonds.

**N. S., Bridgewater**—Hotel—F. W. Clark plans, fireproof.

**Ont., Ingersoll**—School—School Bd. plans, about $75,000.

**Ont., London**—Pub. Utilities Comn. soon lets contract 4-story building. About $75,000. Noted Sept. 28.

### Bids In and Contracts Awarded

**Maine, Ft. Fairfield**—Hotel—Ft. Fairfield Hotel Co. let contract to ASTLE & PAGE, Caribou, about $50,000. Noted July 27.

**N. H., Dixville Notch**—(Official)—Hotel—Dixville Notch Corporation let contract to H. P. CUMMINGS CONSTRUCTION CO., Ware, Mass.

**Mass., New Bedford**—(Official)—City let contract central police station to H. T. BULMAN CORPORATION, New Bedford, about $145,500. Noted Oct. 19.

**Mass., Shirley**—Chapel and Administration Building—Massachusetts Training Schools. 17 State House, let contract to T. P. HURLEY, Marlboro, about $76,700. Noted Sept. 21.

**Mass., Worcester**—St. Stephens Church Society let contract building to McDERMOTT BROS., 18 Cedar St., Worcester, about $125,000.

**N. Y., East View**—(Official)—Alms House—Westchester County let contract 2-story, 500x800-ft., to J. P. BRENNAN & SON, 624 Madison Ave., about $594,475. Noted Sept. 14.

**N. Y., Pittsford**—High School—Bd. Education let contract masonry to P. G. HAUCK, Cox Bldg., about $60,000. Noted Aug. 24.

**N. J., Dover**—High School—Bd. Education let contract to R. W. WHITMAN & CO., 215 East Blackwell St., about $100,000. Noted Oct. 5.

**Penn., Chester**—F. J. Zimmerman, c-o Forest Theater, Broad and Sonsom St., Philadelphia, let contract theater, dance hall and store building to FLEISHMAN CONSTRUCTION CO., Real Estate Trust Bldg., Philadelphia. About $175,000.

**Penn., Munhall**—(Official)—High School—Bd. Education let contract to J. G. FULLMAN, East End Trust Bldg., Pittsburgh, about $53,337. Noted Oct. 5.

**Penn., Warren**—Conewango Savings and Trust Co. let contract bank, office and apartment building to WARREN CONSTRUCTION CO., Jamestown, about $50,000.

**Del., Newark**—Dormitory—Delaware College let contract 3- and 4-story to R. C. BALLINGER & CO., 218 North 13th St., Philadelphia.

**Tenn., Memphis**—Goodwyn Institute let contract to J. E. HOLLINGSWORTH & CO., $109,585. Noted Oct. 5.

**Ky., Louisville**—School—Baptist Women's Missionary Union Training School let contract, Preston St. and Broadway, to A. STRUCK CO. About $150,000.

**Ohio, Sandusky**—Bell Telephone Co. let contract building, Columbus Ave., to E. G. WALSH & BROS., about $100,000.

**Ohio, Wilmington**—(Official)—Theater—C. L. Murphy, 6157 Sheridan Rd., Chicago, let contract to A. P. EVELAND, Miamisville. About $60,000. Noted Oct. 5.

**Mich., Highland Park**—School—Bd. Education let contract to G. W. STILES, 209 South La Salle St., Chicago. Noted Sept. 7.

**Ill., Carlyle**—City Hall—City let contract to TILLMAN CONSTRUCTION CO., Centralia. Noted June 22.

**Ill., Granville**—(Official)—High School—Bd. Education let contract, 3-story, 75x117-ft., to WESTERN CONSTRUCTION CO., Iowa City, Iowa. About $41,153. Noted Oct. 5.

**Wis., Chilton**—Masonic Temple—F. & M. A. let contract to IMMEL CONSTRUCTION CO., Fond du Lac. A. C. Koch, Wells Bldg., Milwaukee, Arch.

**Wis., Oshkosh**—School—State Normal School let contract addition to J. O. CULLEN CONSTRUCTION CO., Janesville, about $118,450. Noted Oct. 5.

**Minn., Winona**—Hospital—Winona General Hospital Association let contract to FARNUM BROS. CO., Plymouth Bldg., Minneapolis, about $60,000. Noted Sept. 28.

**Kan., Ottawa**—High School—Bd. Education let contract, 3-story, brick, stone and rein.-con., to J. W. PRINCE, Parsons. About $98,900. Noted Sept. 28.

**S. D., Clear Lake**—(Official)—Court House—Deuel County let contract to A. M. WOLD CONSTRUCTION CO., Brookings. Noted Oct. 5.

**N. D., Mayville**—High School—Special School Dist. let contract to NORTHERN CONSTRUCTION CO., Grand Forks. Noted Sept. 14.

**Mo., Carthage**—Schools—Bd. Education let contract 2 ward schools to J. P. McNEMEY and J. LOGAN & CO., Carthage, about $40,000 each. Noted Sept. 14.

**Mo., Jefferson City**—Central Hotel let contract 4-story addition to LAUZ BROS., 118 Jefferson St., Jefferson City.

**Mo., St. Joseph**—Empire Trust Co. received low bid for 3-story, rein.-con. building at 8th and Francis St. from Lawson-Stamey Construction Co., 212 North 7th St. About $50,000. Noted Sept. 14.

**Calif., Alameda**—Bd. Education let contract 1st unit Lincoln School to CARNAHAN & MULFORD, San Francisco, about $65,900.

**Calif., Sacramento**—Carnegie Library—City Comn. let contract to KNOWLES & MATHEWSON, Call Bldg., San Francisco, $75,000. Noted Sept. 28.

**Alta., Calgary**—Armory—Dominion Government let contract to CREELMAN & CO., Calgary, about $283,000.

## BARGE CANAL, ALBANY, N. Y.

### Contract 19-A

Bids were received by W. W. Wotherspoon, State Supt. Pub. Wks., for Barge Canal Work, Contract 19-A, redredging Contract 19, from (A) Great Lakes Dredge and Dock Co., Buffalo; (B) Eastover Construction Co., Utica; (C) H. S. Kerbaugh, Inc., Buffalo. The item bids were as follows:

| | A | B | C |
|---|---|---|---|
| 308,700 cu.yd. excavation | $0.48 | $0.50 | $0.34 |
| 4,200 cu.yd. forming embankment | .18 | .20 | .10 |
| 1,830 cu.yd. lining | 1.75 | 1.75 | 1.75 |
| 19.7 M ft. b.m. sawed lumber (yellow pine) | 60.00 | 60.00 | 55.00 |
| 7,600 lin.ft. foundation piles | .40 | .40 | .40 |
| 3,380 sq.ft. steel sheet piling | 1.25 | 1.25 | 1.25 |
| 7.5 M ft. b.m. sheeting and bracing | 50.00 | 40.00 | 47.00 |
| 490 cu.yd. second-class concrete | 8.00 | 8.50 | 8.00 |
| 20,800 cu.yd. fourth-class rip-rap | 2.00 | 1.75 | 1.85 |
| 63,100 lb. structural steel | .055 | .07 | .06 |
| 11,000 lb. metal for repairs to New Home bridge | .12 | .12 | .12 |
| 340 lb. metal reinforcement | .05 | .05 | .06 |
| 4,330 lin.ft. wooden fence | .30 | .30 | .34 |
| 2,070 cu.yd. cinder filling | 1.00 | 1.00 | 1.00 |
| Pumping, bailing and draining (lump sum) | 600.00 | 600.00 | 600.00 |
| Placing bridge on new abutments (lump sum) | 500.00 | 500.00 | 500.00 |
| Maintaining foot traffic (lump sum) | 300.00 | 300.00 | 300.00 |
| Extended totals | $216,053 | $218,227 | $169,759 |

### Terminal Contract No. 19

Bids were received by W. W. Wotherspoon, State Supt. Pub. Wks., for Barge Canal Work, Terminal Contract No. 19, dredging, constructing new bulkhead wall and pier and repairing 2 existing piers and a bulkhead at Greenpoint, Brooklyn, from (A) Mason, Hilton & Co., New York; (B) Riverside Contracting Co., New York; (C) E. Brown Baker, Herkimer; Phoenix Construction Co., New York, $250,610. The item bids of the 3 lowest bidders were as follows:

| | A | B | C |
|---|---|---|---|
| Clearing (lump sum) | $200.00 | $300.00 | $200.00 |
| Removing old material (lump sum) | 4,000.00 | 5,000.00 | 4,000.00 |
| 77,600 cu.yd. excavation | .34 | .39 | .45 |
| 6,400 cu.yd. forming embankment | .10 | .11 | .12 |
| 750 cu.yd. stone filling | 1.00 | 1.00 | 1.40 |
| 2,350 lin.ft. round timber | .30 | .30 | .315 |
| 88,400 lin.ft. foundation and bracing piles | .35 | .40 | .39 |
| 300 fender piles | 18.00 | 16.00 | 17.50 |
| 550 M ft. b.m. sawed lumber | 76.00 | 73.00 | 69.00 |
| 648 lin.ft. half round oak fenders | .25 | .26 | .42 |
| 200 cu.yd. second-class concrete | 7.00 | 9.75 | 9.50 |
| 400 cu.yd. third-class concrete | 6.00 | 7.25 | 8.00 |
| 2,300 cu.yd. first-class reinforced concrete | 18.00 | 17.00 | 19.00 |
| 2,850 lb. rigid metal conduit | .06 | .09¼ | .10 |
| 21,200 lb. steel castings | .07 | .07½ | .07 |
| 34,000 lb. iron castings—plain | .04 | .05 | .05 |
| 463,220 lb. metal reinforcement | .05 | .055 | .055 |
| 212,100 lb. structural steel | .06 | .065 | .065 |
| 13 spools | 100.00 | 110.00 | 100.00 |
| 280 pile shoes | 1.00 | 1.10 | 1.00 |
| 6,000 cu.yd. rip rap | .85 | .90 | 1.20 |
| 1,400 sq.yd. stone block pavement | 2.50 | 3.30 | 3.50 |
| 500 lin.ft. concrete edging | .50 | .60 | .60 |
| 1,000 sq.yd. relaying stone block pavement | .55 | .75 | .95 |
| 1,200 sq.yd. asphalt pavement | 1.10 | 1.30 | 1.45 |
| Extended totals | $207,383 | $219,216 | $227,829 |

### Terminal Contract No. 26

Bids were received by W. W. Wotherspoon, State Supt. Pub. Wks., for Barge Canal Work, Terminal Contract No. 26, constructing a pier and dredging a terminal basin in Lake Champlain, Rouses Point, from (A) J. E. Bryant Co., Cohoes; (B) A. A. Parker, Waterford; (C) E. Brown Baker, Herkimer; Great Lakes Dredge and Dock Co., Albany, $59,900; New York State Dredging Corporation, Rochester, $62,654. The item bids of the 3 lowest bidders were as follows:

| | A | B | C |
|---|---|---|---|
| Clearing (lump sum) | $25.00 | $25.00 | $25.00 |
| 40,000 cu.yd. excavation | .35 | .32 | .48 |
| 24,400 cu.yd. forming embankment | .05 | .05 | .05 |
| 70,000 lin.ft. round timber in cribs | .29 | .30 | .25 |
| 21,500 sq.ft. slab sheeting | .02 | .02 | .02 |
| 3,800 cu.yd. stone filling in cribs | 1.70 | 2.60 | 2.25 |
| 1,720 lin.ft. fender piles | .30 | .40 | .40 |
| 920 cu.yd. second-class concrete | 7.30 | 8.00 | 7.25 |
| 780 lb. structural steel | .10 | .07 | .05 |
| 22 lb. ties for crib anchorage | 82.50 | 70.00 | 60.00 |
| 4,100 lb. iron castings | .04 | .04 | .04 |
| 460 lin.ft. malleable c.-i. nosing | 1.35 | 1.40 | 1.40 |
| 860 cu.yd. second-class rip-rap | 2.10 | 3.25 | 2.75 |
| 785 cu.yd. broken stone | 1.50 | 1.20 | 1.00 |
| Extended totals | $55,678 | $59,542 | $59,600 |

## CATSKILL AQUEDUCT, NEW YORK, N. Y.

### Contract 174

Bids were received by Board of Water Supply, Sept. 5, for Contract 174 for riser-valve controlling mechanisms in shafts of City Tunnel of Catskill Aqueduct from (A) Charles Meads & Co., 38 Park Row; (B) Lupfer & Remick, Buffalo; (C) L. K. Comstock & Co., 30 Church St. The item bids were as follows:

| | A | B | C |
|---|---|---|---|
| 31 riser-valve controlling mechanisms | $570.00 | $720.00 | $770.00 |
| 31 pumps | 80.00 | 100.00 | 80.00 |
| 12,000 lb. copper, bronze and brass pipe and pipe fittings | .80 | 1.00 | 1.05 |
| 300 lb. miscellaneous bronze and brass fittings | 2.40 | 1.00 | 1.25 |
| 20,000 lb. miscellaneous iron and steel | .20 | .15 | .50 |
| 30,000 lb. galvanizing | .06 | .04 | .08 |
| 1,000 lb. lead | .20 | .12 | .20 |
| 22 riser-valve rod jacks | 195.00 | 160.00 | 160.00 |
| 400 man-days, modifying existing metal and concrete work (skilled labor) | 7.00 | 7.50 | 8.00 |
| 300 man-days, modifying existing metal and concrete work (unskilled labor) | 5.00 | 5.50 | 5.00 |
| Extended totals | $46,140 | $50,210 | $60,145 |

### Terminal Contract No. 53

Bids were received by W. W. Wotherspoon, State Supt. Pub. Wks., for Barge Canal Work, Terminal Contract No. 53, constructing dockwall along Dead Creek and Ohio Basin, dredge basin and construct bridge across Dead Crek at Ohio St., Buffalo, from (A) Walsh Construction Co., Davenport, Iowa; (B) Larkin & Sangster, Buffalo; (C) H. S. Kerbaugh, Inc., Buffalo. The item bids of the 3 lowest bidders were as follows:

| | A | B | C |
|---|---|---|---|
| Removal of existing timber docking (lump sum) | $2,200.00 | $2,000.00 | $2,400.00 |
| Removal of northerly abutment (lump sum) | 1,800.00 | 1,800.00 | 2,100.00 |
| Removal and repairs to Erie freight house (lump sum) | 500.00 | 500.00 | 600.00 |
| Underpinning buildings (lump sum) | 500.00 | 500.00 | 600.00 |
| Bracing and protection of Erie R.R. Co. tracks (lump sum) | 1,800.00 | 800.00 | 800.00 |
| Cofferdams, pumping, bailing and draining (lump sum) | 136,000.00 | 105,000.00 | 157,500.00 |
| 245,000 cu.yd. excavation | .32 | .35 | .35 |
| 10 M ft. b.m. sheeting and bracing | 60.00 | 60.00 | 50.00 |
| 60,000 cu.yd. forming embankment | .10 | .10 | .01 |
| 700 lin.ft. foundation piles | .40 | .35 | .35 |
| 12 M ft. b.m. sawed lumber | 60.00 | 55.00 | 55.00 |
| 62 M ft. b.m. sawed lumber, treated | 70.00 | 70.00 | 70.00 |
| 60 lin.ft. wooden fence | .30 | .30 | .30 |
| 32,800 cu.yd. second-class concrete | 6.40 | 7.25 | 6.50 |
| 1,570 cu.yd. second-class reinforced concrete | 9.00 | 10.00 | 10.00 |
| Operator's cabin (lump sum) | 2,500.00 | 2,500.00 | 2,500.00 |
| 70 lin.ft. laying cast-iron pipe and specials | .60 | .50 | .50 |
| 5,300 lin.ft. tile and stone drains | .20 | .23 | .20 |
| 2,700 lb. metal duct | .12 | .12 | .12 |
| 340,000 lb. structural steel | .07 | .066 | .065 |
| 41,000 lb. iron castings, plain | .04 | .048 | .04 |
| 63,000 lb. machinery | .12 | .14 | .14 |
| Hand-operated safety gate (lump sum) | 300.00 | 300.00 | 300.00 |
| 3,600 lin.ft. malleable cast-iron nosing | 1.40 | 1.50 | 1.60 |
| 49,000 lb. metal reinforcement | .05 | .04 | .045 |
| 660 fender fastenings | 1.50 | 1.80 | 1.50 |
| 4,600 sq.ft. steel sheet piling | 1.40 | 1.40 | 1.40 |
| 3,700 lin.ft. pipe railing | .60 | .60 | .60 |
| 20,000 lb. pig iron | .02 | .02 | .02 |
| 100 lin.ft. metal railing | 3.25 | 3.00 | 3.00 |
| Electrical equipment (lump sum) | 6,000.00 | 6,000.00 | 6,000.00 |
| 2,500 cu.yd. broken stone or gravel surfacing | 1.25 | 1.25 | 1.50 |
| 240 lin.ft. concrete curb and edging | .50 | .50 | .50 |
| 900 sq.ft. concrete sidewalk | .20 | .20 | .20 |
| 950 sq.yd. relaying stone block pavement | .60 | .60 | .50 |
| 212 sq.yd. wood block pavement | 2.50 | 2.75 | 2.75 |
| 550 sq.yd. asphalt pavement | 1.20 | 1.20 | 1.20 |
| Plumbing (lump sum) | 600.00 | 650.00 | 650.00 |
| Maintaining navigation (lump sum) | 3,000.00 | 3,000.00 | 1,000.00 |
| Maintaining highway traffic (lump sum) | 6,000.00 | 3,000.00 | 1,000.00 |
| Deduct for Ohio st. bridge | 500.00 | 500.00 | 365.00 |
| Extended totals | $532,584 | $534,615 | $554,500 |

## WHARF, HOUSTON, TEX.

### Units 2 and 3

Bids were received by city Sept. 29 for constructing Units 2 and 3 of wharf from (A) Horton & Horton, Houston; (B) James Stewart & Co.; (C) William Moore. The item bids were as follows:

| | A | B | C |
|---|---|---|---|
| For all work covered by Plans 1 to 7 | $161,892 | $172,530 | $195,220 |
| 40,000 cu.yd. excavation | .35 | .26 | .37½ |
| 1,000 lin.ft. vertical timber piling untreated | .25 | .24 | .1583 |
| 1,000 lin.ft. inclined or batter piling untreated | .30 | .28 | .1916 |
| 30 M ft. untreated timber sheet piling 30 to 36 ft. long | 55.00 | 50.00 | 37.50 |
| 20 M ft. untreated timber sheet piling 24 to 28 ft. long | 40.00 | 44.00 | 35.50 |
| 10 M ft. untreated timber sheet piling 16 to 22 ft. long | 40.00 | 43.00 | 34.50 |
| 1 M ft. dimension timbers for fender system and wharf logs | 60.00 | 50.00 | 38.00 |
| 100 cu.yd. concrete I | 6.00 | 6.45 | 5.81 |
| 200 cu.yd. concrete II | 6.50 | 6.50 | 6.31 |
| 100 cu.yd. concrete III | 7.00 | 7.60 | 7.02 |
| 100 cu.yd. concrete VI | 7.50 | 6.90 | 7.23 |
| 40,000 lb. reinforced steel | .05 | .04 | .04½ |
| 5,000 sq.ft. form surface for all concrete | .10 | .14 | .07½ |
| 2 mooring cavels | 20.00 | 18.00 | 20.00 |
| 1,000 lb. tie rods | .06 | .07 | .04½ |
| 50 bolt inserts with bolt comp | 1.50 | .50 | .30 |
| 100 cu.yd. trenching | 1.50 | 1.00 | .18 |
| 100 lin.ft. 24-in. vitrified pipe | 1.65 | 1.70 | 1.35 |
| 20 lin.ft. 15-in. vitrified pipe | .90 | .80 | .65 |
| 30 lin.ft. 8-in. vitrified pipe | .49 | .60 | .30 |
| 2 std. single inlets | 26.00 | 25.00 | 20.00 |
| 500 lb. nails, spikes, bolts, nuts and washers | .10 | .07 | .05 |
| 2,000 man hours labor, skilled | .75 | .85 | .60 |
| 4,000 man hours labor, unskilled | .30 | .32 | .30 |
| 1 000 team hours | .70 | .75 | .60 |
| Extended totals | $189,224 | $196,255 | $221,570 |

## TRADE CATALOGS

**Ferguson Synstone (Synthetic Stone) System.** The Ferguson Synstone Co., Century Bldg., Denver, Colo. Catalog. Pp. 12. 10x12 in. Illustrated. Detailed exposition of a new system of concrete-block construction.

**R. I. W. Cement Filler and Cement-Floor Paint.** Toch Bros., 320 Fifth Ave., New York. Pamphlet. Pp. 24. 5x8 in. Illustrated.

**Simplex Jacks.** Templeton, Kenly & Co., Ltd., 1020 South Central Ave., Chicago, Ill. Catalog No. 216. Pp. 32. 6x9 in. Illustrated. This covers jacks for steam and electric railroads, contractors, automobiles, etc. A feature is the space devoted to uses for the pivoted-base emergency type.

**Taps, Dies, Reamers, Gages, Threading Machines, Etc.** Greenfield Tap and Die Corp., Greenfield, Mass. Catalog No. 37. Pp. 270. 5x7 in. Illustrated. This catalog includes the tools made by the Wells Bros. Co., the Wiley & Russell Mfg. Co. and the A. J. Smart Mfg. Co.

## THE PRINCIPAL COUNTY ROAD CONTRACTS UNDER CONSTRUCTION IN TEXAS, OCTOBER 1, 1916

| County | County Seat | Road, Dist. No. | Bonds Voted | Contractors | Engineers | Class of Construction | Expect to Complete |
|---|---|---|---|---|---|---|---|
| Brazos | Bryan | 1 | | W. D. Haden & Wm. Bates, Galveston | Abney & McCormick, Bryan | 85 miles of gravel | Feb. 1, 1917 |
| Brazos | Bryan | 1 | $400,000 | Uvalde Rock Asphalt Co., San Antonio | Abney & McCormick, Bryan | 4-mile Uvalde rock asphalt macadam | Feb. 1, 1917 |
| Brazos | Bryan | 1 | | Kaw Paving Company, Topeka, Kansas | Abney & McCormick, Bryan | 4-mile Texaco asphaltic concrete | Feb. 1, 1917 |
| Camp | Pittsburg | 1 | 100,000 | N. B. Gregory, Texarkana (part of issue) | A. D. Stivers, Pittsburg | 1-mile concrete, 19-mile gravel | April 1, 1917 |
| De Witt | Cuero | 2 | 50,000 | W. A. Kelly, San Antonio | J. W. Benjamin, Cuero | Gravel | Feb. 1, 1917 |
| De Witt | Cuero | 3 | 35,000 | W. A. Kelly, San Antonio | J. W. Benjamin, Cuero | Gravel | Feb. 1, 1917 |
| El Paso | El Paso | Warrants | | S. W. Portland Cement Co., El Paso | Chas. S. Henning, El Paso | 15-mile concrete | Dec. 1, 1916 |
| El Paso | El Paso | Warrants | 300,000 | El Paso Bitulithic Co., El Paso | Chas. S. Henning, El Paso | 20-mile bitulithic | Dec. 1, 1916 |
| El Paso | El Paso | Warrants | | County doing own work | Chas. S. Henning, El Paso | 15-mile Texaco asphaltic concrete (resurface) | Dec. 1, 1916 |
| Fannin | Bonham | 3 | 250,000 | Owens Bros. Cons. Co., Bonham | Geo. McClellan, Bonham | Macadam | Oct. 1, 1916 |
| Fannin | Bonham | 4 | 250,000 | Sublet by Dists. to various contrs. | Cavin Cock, Honey Grove | Gravel | Mar. 1, 1917 |
| Fannin | Bonham | 6 | 140,000 | Edgar Howard, Cameron | Geo. McClellan, Bonham | Gravel | May 1, 1917 |
| Fannin | Bonham | 5 | 12,000 | "Force Account" | C. C. Howard, Gober | Gravel | Nov. 1, 1916 |
| Fannin | Bonham | 7 | 80,000 | Fred Moore, C. C. Baker, Helms Bros. | J. D. Carter, Leonard | Gravel | Mar. 1, 1917 |
| Grayson | Sherman | County | 900,000 | Womack Cons. Co. and W. P. McCoy | Julian C. Feild & Co. | Gravel | Jan. 1, 1917 |
| Gregg | Longview | | 350,000 | Owens Bros. Cons. Co., Bonham | E. W. Davis, Longview | Gravel and sand clay | Mar. 1, 1917 |
| Harris | Houston | Warrants | 100,000 | Eureka Paving Co., Houston | W. N. Thatcher, Houston | 2-mile Texaco asphaltic concrete | Oct. 1, 1916 |
| Harris | Houston | Warrants | 175,000 | Southern Paving Co., Dallas | W. N. Thatcher, Houston | 3-mile Texaco asphaltic concrete | Jan. 1, 1917 |
| Henderson | Athens | 1 | 75,000 | Cobb & Gregory, Dallas | A. B. Axtell, Athens | Sand clay | Jan. 1, 1917 |
| Henderson | Athens | 3 and 4 | 45,000 | Smith Bros., Crockett | A. B. Axtell, Athens | Sand clay | Jan. 1, 1917 |
| Hardin | Kountze | 3 | 224,000 | W. E. Wills, Beaumont | Myers & Noyes, Dallas | Shell | Feb. 1, 1917 |
| Hopkins | Sulphur Springs | 1 | 400,000 | Cobb & Gregory, Dallas | J. F. Witt, Dallas | Macadam, Finley method, Texaco | June 1, 1917 |
| Hopkins | Sulphur Springs | 2 | 50,000 | Cobb & Gregory, Dallas | J. F. Witt, Dallas | Gravel | June 1, 1917 |
| Jefferson | Beaumont | County | | Eureka Paving Co., Houston | M. J. Graham, Beaumont | 4-mile Texaco sheet asphalt | Jan. 1, 1917 |
| Jefferson | Beaumont | County | | Uvalde Rock Asphalt Co., San Antonio | M. J. Graham, Beaumont | 3-mile Uvalde rock asphalt | Jan. 1, 1917 |
| Jefferson | Beaumont | County | 190,000 | Chaplin-Colglazier C. Co., San Antonio | M. J. Graham, Beaumont | 2-mile asphalt macadam | Jan. 1, 1917 |
| Jefferson | Beaumont | County | | Haden & Bates, Galveston | M. J. Graham, Beaumont | Shell | Jan. 1, 1917 |
| Karnes | Karnes City | 3 | 75,000 | "Force account" | Hess & Skinner, Dallas | Grading dirt | Dec. 1, 1916 |
| Lipscomb | Lipscomb | County | 75,000 | J. T. Hamer, Sequin | Hess & Skinner, Dallas | Sand clay | Feb. 1, 1917 |
| Matagorda | Bay City | 1 | 100,000 | Sublet in various small contracts | E. N. Gustafson, Bay City | Grading dirt and shell | April 1, 1917 |
| McMullen | Tilden | County | 30,000 | Bexar County Cons. Co., San Antonio | Jowers, Jourdanton | Grading dirt | Nov. 1, 1916 |
| Robertson | Franklin | 4 | 50,000 | W. C. Jucksch, Waco | Lamar Acker, Calvert | Gravel | Jan. 1, 1917 |
| Red River | Clarksville | 1 | 300,000 | Texas Nat'l Cons. Co., Clarksville | J. R. Johnson Eng. Co. | 50-mile gravel | June 1, 1917 |
| Red River | Clarksville | 2 | 16,000 | M. C. Donivan, Clarksville | J. R. Johnson Eng. Co. | 4-mile gravel | Nov. 1, 1916 |
| Red River | Clarksville | 3 | 43,500 | R. E.-aniels, Ole Lawson, Clarksville | J. R. Johnson Eng. Co. | 10-mile gravel | Nov. 1, 1916 |
| Red River | Clarksville | 4 | 28,000 | Johnson-Coffer & McLendon | J. R. Johnson Eng. Co. | 6-mile gravel | Nov. 1, 1916 |
| Reeves | Pecos | 1 | 100,000 | W. E. Hamilton, Fort Stockton | G. B. Meriwether, Donna | 22-mile gravel, —mile concrete | Nov. 1, 1916 |
| Rockwall | Rockwall | 1 | 25,000 | Cobb & Gregory, Dallas | J. F. Witt, Dallas | Texaco 3-ply asphalt macadam | Nov. 1, 1916 |
| San Jacinto | Cold springs | 2 | 40,000 | N. A. Dawson, San Antonio | L. S. Bryant, Cold Springs | 24-mile sand clay | Jan. 1, 1917 |
| San Patricio | Sinton | 3 | 75,000 | Southern Engr. Co., Aransas Pass | Geo. W. King, Aransas Pass | 24.4-mile adobe gravel, oiled | Jan. 1, 1917 |
| Titus | Mt. Pleasant | 1 | 200,000 | Smith Bros., Crockett | H. S. Wilder Co., Mt. Pleasant | Gravel and sand clay | May 1, 1917 |
| Titus | Mt. Pleasant | 3 | 75,000 | Smith Bros., Crockett | H. S. Wilder Co., Mt. Pleasant | Gravel and sand clay | May 1, 1917 |
| Titus | Mt. Pleasant | 8 | 25,000 | Smith Bros., Crockett | H. S. Wilder Co., Mt. Pleasant | Gravel and sand clay | May 1, 1917 |
| Trinity | Groveton | Warrants | 75,000 | Midland Bridge Co., Houston | J. M. Walters, Houston | Sand clay | Jan. 1, 1917 |
| Upshur | Gilmer | 1 | 100,000 | O. C. McElrath, Gilmer | Frank Mayers, Gilmer | Gravel and sand clay | Jan. 1, 1917 |
| Upshur | Gilmer | 7 | 75,000 | O. C. McElrath, Gilmer | Frank Mayers, Gilmer | Gravel and sand clay | Jan. 1, 1917 |
| Walker | Huntsville | Warrants | 50,000 | State of Texas Pen Com. (convict lbr.) | W. J. Kelly, Huntsville | Sand clay | Feb. 1, 1917 |

* Compiled by L. W. Kemp, Mgr. of Paving & Roads Division of The Texas Co., Houston, from data furnished by the Engineers of the respective road districts

## STORM SEWERS, PLAINFIELD, N. J.

Bids were received Oct. 9 by the Common Council for storm sewers from (A) John M. Kelley Contracting Co., Camden; (B) James Ferry & Sons, Inc., Baltimore, Md.; (C) T. Foster Callahan, Elizabeth; J. H. Ferguson, Dorchester, Mass., $69,211; Lange and Saslam Co., Ridgefield, $85,120; Consolidated Engineering Co., Inc., Baltimore, Md., $71,744. The item bids of the 3 lowest bidders were as follows:

| | A | B | C |
|---|---|---|---|
| 520 lin.ft. 4 ft., 6 in. x 3 ft., 6 in. rectangular concrete sewer 6 to 8 ft. deep | $7.33 | $8.60 | $8.75 |
| 150 lin.ft. 4 ft., 6 in. x 3 ft., 6 in. rectangular concrete sewer 8 to 10 ft. | 8.29 | 9.00 | 10.00 |
| 50 lin.ft. 4 ft., 6 in. x 3 ft., 6 in. rectangular concrete sewer 10 to 12 ft. deep | 9.00 | 10.00 | 12.00 |
| 560 lin.ft. 45-in. circular sewer 10 to 12 ft. deep | 8.07 | 6.70 | 8.25 |
| 400 lin.ft. 42-in. circular sewer 10 to 12 ft. deep | 7.55 | 6.25 | 7.50 |
| 450 lin.ft. 39-in. circular sewer 8 to 10 ft. deep | 6.22 | 5.50 | 6.75 |
| 740 lin.ft. 36-in. circular sewer 8 to 10 ft. deep | 6.01 | 4.80 | 5.85 |
| 70 lin.ft. 36-in. circular sewer 10 to 12 ft. deep | 6.50 | 5.50 | 6.29 |
| 40 lin.ft. 36-in. circular sewer 12 to 14 ft. deep | 7.29 | 8.00 | 7.21 |
| 40 lin.ft. 36-in. circular sewer 14 to 16 ft. deep | 8.82 | 10.00 | 9.56 |
| 90 lin.ft. 36-in. circular sewer 16 to 18 ft. deep | 10.38 | 12.00 | 11.06 |
| 310 lin.ft. 33-in. circular sewer 6 to 8 ft. deep | 4.78 | 4.00 | 4.58 |
| 390 lin.ft. 33-in. circular sewer 8 to 10 ft. deep | 5.51 | 4.30 | 5.00 |
| 20 lin.ft. 27-in. circular sewer under 6 ft. deep | 3.04 | 3.00 | 3.40 |
| 270 lin.ft. 27-in. circular sewer 10 to 12 ft. deep | 4.53 | 3.90 | 5.12 |
| 1,710 lin.ft. 24-in. circular sewer under 6 ft. deep | 2.12 | 2.50 | 2.80 |
| 1,200 lin.ft. 24-in. circular sewer 6 to 8 ft. deep | 2.05 | 2.80 | 3.10 |
| 820 lin.ft. 22-in. circular sewer under 6 ft. deep | 1.84 | 2.20 | 2.40 |
| 20 lin.ft. 22-in. circular sewer 6 to 8 ft. deep | 1.98 | 2.50 | 2.70 |
| 20 lin.ft. 22-in. circular sewer 10 to 12 ft. deep | 2.37 | 3.00 | 3.83 |
| 830 lin.ft. 20-in. circular sewer under 6 ft. deep | 1.45 | 2.00 | 2.00 |
| 550 lin.ft. 20-in. circular sewer 6 to 8 ft. deep | 1.61 | 2.30 | 2.30 |
| 380 lin.ft. 20-in. circular sewer 8 to 10 ft. deep | 1.89 | 2.60 | 3.00 |
| 550 lin.ft. 18-in. circular sewer under 6 ft. deep | 1.25 | 1.85 | 1.80 |
| 480 lin.ft. 18-in. circular sewer 6 to 8 ft. deep | 1.43 | 2.10 | 2.10 |
| 240 lin.ft. 18-in. circular sewer 8 to 10 ft. deep | 1.64 | 2.25 | 2.60 |
| 400 lin.ft. 15-in. circular sewer under 6 ft. deep | 1.00 | 1.70 | 1.50 |
| 240 lin.ft. 15-in. vitrified inlet connections | 1.41 | 1.50 | 1.61 |
| 3,700 lin.ft. 12-in. vitrified inlet connections | 1.25 | 1.25 | 1.40 |
| 1 manhole on rectangular sewer 6 to 8 ft. deep | 69.30 | 45.00 | 35.00 |
| 2 manholes on rectangular sewer 10 to 12 ft. deep | 53.17 | 55.00 | 45.00 |
| 14 manholes on circular sewer under 6 ft. deep | 54.84 | 40.00 | 36.00 |
| 9 manholes on circular sewer 6 to 8 ft. deep | 59.45 | 45.00 | 42.00 |
| 7 manholes on circular sewer 8 to 10 ft. deep | 69.66 | 55.00 | 48.00 |
| 5 manholes on circular sewer 10 to 12 ft. deep | 74.93 | 65.00 | 60.00 |
| 2 manholes on circular sewer 16 to 18 ft. deep | 110.34 | 100.00 | 75.00 |
| 1 special manhole East 5th and Richmond St | 50.49 | 50.00 | 60.00 |
| 132 sewer inlets | 33.68 | 40.00 | 40.00 |
| 1 connection with brook Park Ave | 14.91 | 100.00 | 15.00 |
| 1 connection with brook Grove Ave | 20.14 | 100.00 | 15.00 |
| 10 sq.yd. brick pavement | 2.00 | 3.00 | 4.00 |
| 400 sq.yd. bituminous macadam | 1.25 | 1.25 | 1.00 |
| 43,600 sq.yd. water-bound macadam | .65 | .60 | 1.00 |
| 100 sq.yd. concrete for foundations | 8.00 | 10.00 | 8.00 |
| 100 cu.yd. foundations of screened gravel | 1.85 | 3.50 | .75 |
| 100 cu.yd. rock excavation | 2.50 | 2.00 | 4.00 |
| 10 M ft. b.m. lumber for sheeting, etc | 30.00 | 30.00 | 40.00 |
| 1 M ft. b.m. lumber for platforms and foundations | 50.00 | 50.00 | 55.00 |
| 1,800 lb. steel I-beams used in manholes | .06 | .07 | .05 |
| Extended totals | $56,997 | $59,240 | $65,806 |

**Lumber Industry**—Big orders in prospect for railroad cars and extensive paving contracts specifying blocks provide some elements of prosperity for the lumber industry. Among the railroads which have recently issued inquiries and the number of cars and the approximate amount of lumber which will be required are the following: Pere Marquette R.R., 1,000 forty-ton box cars, 4,500,000 ft.; New York, Chicago & St. Louis R.R., 500 40-ton steel underframe automobile cars, 2,500,000 ft.; Chicago & Alton Ry., 200 forty-ton automobile cars, 1,000,000 ft.; Atlantic Coast Line, 50 to 100 double deck forty-ton stock cars, 250,000 to 500,000 ft.; Chicago & Alton Ry., 300 furniture cars, 2,000,000 ft. In the paving field contracts let or to be let are for over 40,000 sq.yd. in Kansas City, 75,000 yd. in New Orleans, 21,000 yd. in Ft. Dodge, Iowa, while the entire length of Battery St. in San Francisco will have Douglas fir blocks, making it the biggest stretch of wood-block paving in California. Norfolk, Va., is contemplating contracting for 36,000 sq.yd., requiring approximately 1,300,000 ft. of lumber. Smaller contracts include 7,500 yd. of Southern pine for Galveston and over 8,000 yd. of fir for Seattle.

**France**—The annual fair at Lyons, France, will be held from Mar. 1 to 15, 1917, inclusive. Buyers from all parts of the world will be present, and it is desired to have as large a representation of American manufactures as possible. The State Department has placed $500 at the disposal of the American Consul, which will enable him to distribute the catalogs and other literature of American manufacturers who are interested.

**The Jeffrey Manufacturing Co.**, Columbus, Ohio, has opened an agency with the Gustin-Bacon Manufacturing Co., a large and old-established firm of Kansas City, in order to establish closer coöperation with its customers in Kansas, Missouri and Oklahoma, and improve its service there. The Gustin-Bacon Co. will carry a line of Jeffrey transmission machinery, chains, buckets, etc., in stock. J. S. Davidson, who has spent several years in the sales and engineering departments of the Jeffrey Co. has associated himself with the Gustin-Bacon Co. and will handle all inquiries for Jeffrey products.

# SPECIAL OPPORTUNITIES SECTION

## Contracts To Be Let

Bids received until Nov. 21, 1916.

### State Highway Work

OFFICE OF THE STATE COMMISSION OF HIGHWAYS

Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at 1 o'clock p.m. on Tuesday, November 21st, 1916, for the construction of highways in the following counties:

Albany .....(one highway—3.93)
Cattaraugus..(two highways—4.04; 3.00)
Dutchess .....(one highway—7.70)
Erie .....(one highway—5.29)
Herkimer .....(one highway—0.71)
Rensselaer
(three highways—6.34; 4.95; 2.97)
Sullivan .....(one highway—4.01)
Washington .....(one highway—5.77)
Westchester .....(one highway—0.35)

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commisison in Albany, N. Y., and also at the office of the Division Engineers in whose division the roads are to be improved. The addresses of the division engineers and the counties in which they are in charge will be furnished on request.

The especial attention of bidders is called to "General Information of Bidders" on the itemized proposal, specifications and contract agreement.

EDWIN DUFFEY, Commissioner.
I. J. MORRIS, Secretary.

Bids received until Dec. 1, 1916.

### Collection and Disposal of Garbage

Wilkes-Barre, Pa.

Sealed Proposals will be received at the City Clerk's Office, Wilkes-Barre, Pennsylvania, until Friday, December 1st, 1916, at 12 o'clock Noon, for furnishing all labor and materials and to collect and dispose of, in a sanitary manner, all garbage and dead animals in the City of Wilkes-Barre, for and during the period of five, seven or ten years, beginning May 1, 1917, in accordance with requirements and specifications, copies of which may be had upon application. Proposals to be endorsed "Proposals for the collection and disposal of garbage and dead animals" and shall be addressed to Fred H. Gates, City Clerk, and must be made upon forms to be furnished by him, and must be accompanied by a bidding bond in the sum of $3,000.00, the successful bidder to give a Surety Company Bond in the sum of $15,000.00.

The City Council reserves the right to reject any or all bids received and to readvertise the work if deemed for the best interests of the City.

By authority of City Council.
FRED H. GATES, City Clerk.

TREASURY DEPARTMENT, U. S. Coast Guard, Washington, D. C., October 12, 1916.—Sealed proposals will be received at this office until 2 o'clock P.M. of Monday, December 4, 1916, and then publicly opened, for constructing a Coast Guard Station, and accessories, on the Siuslaw River, Oregon. Specifications and drawings, form of proposal, etc., and full information can be obtained upon application to the Superintendent, Thirteenth District, Coast Guard, San Francisco, Calif., or to this office. E. P. BERTHOLF, Captain Commandant.

Bids received until Nov. 4, 1916.

### Road Work

Atlantic City, N. J.

The Board of Chosen Freeholders of Atlantic County, N. J., will receive bids at Eleven o'Clock A.M. during a meeting to be held in Memorial Hall, New York Avenue, Atlantic City, N. J., November 4th, 1916, for extraordinary repairs to any number or all of the following roads, or to the three as a whole:

1—White Horse Pike from Absecon to Hammonton.
2—White Horse Pike from Hammonton to the Camden County Line.
3—Ocean Highway from Absecon to Sea View Golf Club.

Plans and specifications may be seen at the office of the Engineer for Atlantic County, N. J., Guarantee Trust Building, Atlantic City, N. J., where they may be obtained in return for a deposit of $10.00 for each set. Such deposit will be refunded if plans and specifications are returned by noon of November 6th, 1916. Bids must be made out on bidding blanks incorporated in the specifications.

The total work involved in the three roads is approximately as follows: Embankment, 8,736 cubic yards; Warrenite Pavement and Base Course, 287,475 square yards; Graveled Shoulders, 22,572 cubic yards; Gravel "C" for foundations, 14,853 cubic yards; Concrete Gutters, 5,366 square yards; Wooden Guard Rail, 20,500 lineal feet; together with quantity of Concrete Headers, Drainage Provisions, Catch Basins and other incidental items.

A certified check to the amount of $1,000 will be required with each bid and a contractor will be required to furnish a bond in the full amount of the contract price, which must guarantee maintenance for a period of five (5) years.

If the contract is awarded it will be conditioned upon the sale and delivery of bonds by Atlantic County for payment of the work under the contract, and a contract will not be executed and delivered to a contractor until said bonds have been issued, sold and delivered.

The right is reserved to reject any or all bids. A. H. NELSON,
Engineer for Atlantic County.
DOMINIC CORSIGLIA,
Chairman of Road Committee.

OFFICE, COMMISSIONERS, District of Columbia, Washington, October 3, 1916.—Sealed proposals will be received at the office of the Secretary of the Board of Commissioners, Room 509, District Building, until 2 o'clock P.M., November 2nd, 1916, for constructing a seven-span steel plate girder highway bridge, abutments, piers and approaches, on Benning Road crossing the tracks of the Philadelphia, Baltimore & Washington Railroad Company and the Baltimore & Ohio Railroad Company. Forms of proposals, specifications and all necessary information may be obtained from Chief Clerk, Engineer Department, Room 427, District Building, Washington, D. C. OLIVER P. NEWMAN, LOUIS BROWNLOW, CHARLES W. KUTZ, Commissioners, D. C.

PROPOSALS FOR DREDGING—U. S. Engineer Office, Philadelphia, Pa.—Sealed proposals will be received here until 12 noon, November 9, 1916, and then opened, for dredging in Delaware River, on Deep Water Point, New Castle and Reedy Island lighthouse ranges. Further information on application.

Bids received until Nov. 15, 1916.

### Water-Works Reservoir

Aurora, Ill.

Sealed bids for the construction of a reinforced-concrete covered reservoir with appurtenances will be received by the City of Aurora, Illinois, until 10 A.M., November 15, 1916. Each bid must be accompanied by certified check for Five Hundred Dollars ($500.00), and the envelope must be plainly marked "Bid for Reservoir" and must be addressed to President, Board of Public Works, City Hall, Aurora, Illinois.

The work includes approximately 1,460 cubic yards of excavation, 800 cubic yards of concrete, 135,000 pounds of reinforcing steel, 6,200 pounds of structural steel, and a few minor appurtenances.

Plans and Specifications may be examined at the office of the Superintendent of the Water Department in the City Hall at Aurora, or at the office of Dabney H. Maury, Consulting Engineer, 1137 Monadnock Block, Chicago; or copies will be furnished to intending bidders on receipt of a deposit of $10.00, which deposit will be returned to the parties furnishing same upon the return in good order of the Plans and Specifications.

The City reserves the right to reject any or all bids.

CHAS. S. KILBOURNE,
President, Board of Public Works,
Aurora, Illinois.

Bids received until Nov. 6, 1916.

### Bridge Approaches

Tulsa, Okla.

Sealed proposals will be received by the Board of County Commissioners of Tulsa County, Oklahoma, on Monday, November 6th, 1916, until 10 o'clock A.M., in the County Court House, for the construction of approaches to the Arkansas River Bridge No. 150.

Maps, plans, specifications and estimates may be seen at the office of the County Engineer at the Court House in Tulsa, Oklahoma. No bids will be received unless accompanied by a certified check for the sum of Ten (10) per cent. of the bid, and made payable to the Board of County Comissioners of Tulsa County, Oklahoma.

The successful bidder will be required to give bond for the faithful completion of the work. The Board of County Commissioners reserve the right to reject any and all bids.

By order of the Board of County Commissioners, this 2nd day of October, 1916.
LEWIS CLINE, County Clerk.

U. S. ENGINEER OFFICE, First District, New York City, Room 710 Army Building, October 25, 1916.—Sealed proposals for Dredging in Hudson River Channel, N. Y., will be received here until 12 M., November 24, 1916, and then opened. Further information on application.

LOCK GATES—U. S. Engineer Office, Wheeling, W. Va.—Sealed proposals will be received here until 11 a.m. (Eastern time), October 30, 1916, and then opened, for furnishing and erecting lock gates for Dam No. 22, Ohio River. Information on application.